

REF
606
M48r
v.11
1896
29th
Lockcase


The Thirtieth Industrial . .
Exposition of the Mechanics'
Institute will open August 17
and close September 18, . . .
1897.



DUP. EXCH. 5 SEPT 1900

MECHANICS INST. LIB.

SAN FRANCISCO, CAL.

REF
606
M48r
v.11
1896
29th

• REPORT •
OF THE
Lockcase TWENTY-NINTH

Industrial Exposition

OF THE
MECHANICS INSTITUTE
OF THE
CITY OF SAN FRANCISCO.

*Held at the Mechanics' Pavilion, Larkin Street, San Francisco, Cal.,
from September 1 to October 3, 1896, inclusive,
being open 29 days.*

SAN FRANCISCO
THE HINTON PRINTING COMPANY, 321 SACRAMENTO STREET.
1897.



MECHANICS' INSTITUTE.

TWENTY-NINTH INDUSTRIAL EXPOSITION.

1896.

BOARD OF MANAGERS.

ERNST A. DENICKE, President.	R. P. DOOLAN,
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	HENRY ROOT.

J. H. GILMORE, Superintendent.	JOSEPH M. CUMMING, Secretary.
CARL H. CLARK, Agent.	HENRY RASCHEN, Art Director.

COMMITTEES OF THE MECHANICS' INSTITUTE.

Finance.....	AYERS, HOLMES, PRESSON
Library, Rooms and Building.....	HOLMES, COLE, ROOT
Books and Donations.....	LEGGETT, HEALY
Lectures and Classes.....	DOOLAN, LEWIS, ROOT
Printing and Advertising.....	PRESSON, FORMHALS, LEWIS
Pavilion.....	DOOLAN, AYERS, HOLMES
Employes.....	KENDRICK, HEALD, DENICKE
Machinery.....	COLE, HOLMES, ROOT
Art.....	HEALD, KENDRICK, COLE
Exhibits	AYERS, COLE, KENDRICK
Tickets and Admissions.....	HEALY, HEALD, DOOLAN
Music and Decoration.....	KENDRICK, FORMHALS, PRESSON
Management.....	LEWIS, PRESSON, HEALY

Special Attractions for Fair, Trustee R. P. Doolan; Joseph M. Cumming, Secretary; S. H. Tacy, Manager of Manufacturers' and Producers' Association.

The President is, ex-officio, a member of all committees.

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REPORT OF BOARD OF TRUSTEES

OF THE

Twenty-ninth Industrial Exposition

OF THE

MECHANICS' INSTITUTE.

1896.

To the Members of the Mechanics' Institute :

The Board of Trustees of the Mechanics' Institute have the honor herewith to present to the members a report of the 29th Industrial Exposition given by the society, being the 13th held in the present Pavilion.

The year 1896 opened inauspiciously, and matters did not look at all promising for the holding of a successful Fair. The continued depression in trade and in the different industrial branches, the exceeding low prices of all agricultural products, together with the unsettled financial and political condition of the country, and the impending presidential election, gave room for fear that the Board would find it difficult to interest the necessary number of exhibitors or to attract the general public sufficiently to help pay the heavy expenses. In spite of the gloomy outlook the Board of Trustees resolved on the 21st day of January, 1896, to open the Fair on September 1st, and by the 1st of May began to solicit exhibitors.

Convinced that much of the local depression was due to the people of the State neglecting home products in favor of im-

ported articles, the Board resolved to make the 29th Industrial Exposition a "Home Product Exhibition" pure and simple. In furtherance of this plan it put itself into communication with the Manufacturers' and Producers' Association, and thereby gained a valuable ally.

As far back as 1882 the introductory report had already recommended that the Fairs be used to promote our own industries, and the liberal manner in which our Home Producers and Manufacturers came forward proved conclusively that the Board had not made a miscalculation. For completeness, and taste in design, and money well expended, the 29th Industrial Exposition was far ahead of all its predecessors. The money expended by individual exhibitors ran far up into the thousands of dollars, and never before was such enthusiasm shown by all concerned.

The opening of the Exposition was announced for 7:30 P. M., on September 1st, and at that hour and date everything, excepting perhaps a few trifling details, was ready and in position. This unprecedented promptness was largely due to the enthusiasm of exhibitors and to the fact that the Board of Trustees had offered awards in cash to the best exhibits complete at the hour named.

As the taste for good music had considerably and steadily increased in this city of late years, arrangements were made for bringing together forty of the best musicians procurable in the city under the able leadership of Mr. Gustav Hinrichs, with, as must be conceded, most satisfactory results.

In consideration of the hard times, the idea was advanced and acted upon that the price of general admission be reduced to 25 cents for adults and 15 cents for children. That the Board made no mistake in undertaking so bold an innovation is proved by the very good financial result; for in spite of the increased outlays for music and decorations, etc., the Fair was thereby not only made immensely more popular, but the net profits amounted to \$8,195.46.

The selection and hanging of pictures was put into the hands of a reputable home artist, and although our appeal to the fortunate owners of valuable pictures was not met with the response which the occasion might be deemed to have warranted, there

was so fine an exhibition made by our local artists that it partook of the nature of a revelation to a large number of lovers of art. In order to give more encouragement to our own artists, there was inaugurated under the guidance of the Secretary of the Institute, an "Artists' Friends Association," with a final membership fee of 50 cents. The movement was put on foot so late that it could not be well advertised; nevertheless \$135.00 were in this way subscribed, for which sum were purchased 11 pictures painted by local artists, and which were afterwards distributed by lot among the members of the "Artists' Friends Association."

The value of "special event days" can not be overestimated, and helped materially to swell the cash receipts.

The Institute is much indebted to the Manufacturers' and Producers' Association of California for the valuable aid rendered it by the said institution.

Our thanks are also due to the California Fish Commission, which made a very complete and instructive display of fresh-water fish and also of a salmon hatchery,—thus adding materially to the attractiveness of the Fair.

In addition, our thanks are due and are hereby tendered to the Press of this City, which so favorably and freely gave information to the public, reporting from day to day the attractions and progress of the Exposition; to the gentlemen and ladies who undertook the laborious work of Judges; and finally to all members of the Institute and others who aided us in the labor, the result of which will be found in detail in the following pages.

REPORT FROM THE COMMITTEE ON TICKETS AND ADMISSIONS.

To the President and Board of Managers
Of the Twenty-ninth Industrial Exposition—

Gentlemen: We herewith present a report of the daily receipts at the ticket office; also a detailed account of the total number of tickets sold, class of tickets and total receipts from that source:

DAILY RECEIPTS AT TICKET OFFICE.

DATE.	SEASON TICKETS SOLD.			ADMISSION TICKETS SOLD.				CASH.
	Double Season....	Single Season....	Children's Season..	DAY.		NIGHT.		
				Children's ..	Adults.....	Children's ..	Adults.....	
1896.								
August 30.....	51		3					\$259 50
August 31.....	20	1	2					106 00
September 1.....	125	9	29			32	669	867 55
September 2.....	44	7	14	6	226	36	773	518 05
September 3.....	29	6	21	34	270	58	1,258	590 30
September 4.....	34	6	14	38	280	107	1,370	631 25
September 5.....	35	6	11	320	743	173	2,728	1,152 45
September 7.....	15	1	2	39	350	65	961	424 35
September 8.....	5		2	118	664	110	1,458	592 70
September 9.....	7			647	2,245	189	2,763	1,412 40
September 10.....	6		1	66	497	64	1,196	474 25
September 11.....	3		1	99	721	263	1,861	716 30
September 12.....	3		1	421	1,131	251	3,946	1,386 55
September 14.....				78	622	110	2,158	728 20
September 15.....				63	860	111	1,736	675 10
September 16.....	1			61	806	81	1,608	629 80
September 17.....	1			95	603	122	2,631	846 05
September 18.....				78	659	120	1,565	585 70
September 19.....	1			294	867	221	4,341	1,384 25
September 21.....				73	701	151	2,698	853 35
September 22.....				37	345	84	1,432	462 40
September 23.....				86	911	99	1,762	696 00
September 24.....				53	772	86	1,794	664 85
September 25.....	1			73	782	285	3,097	1,025 95
September 26.....				549	1,723	381	5,647	1,982 00
September 28.....				53	564	126	1,802	619 10
September 29.....				64	540	222	2,392	775 90
September 30.....				82	851	152	2,327	829 60
October 1.....				92	742	146	2,867	937 95
October 2.....				142	826	310	3,766	1,215 80
October 3.....				43	1,492	301	5,458	1,850 60
September 5.....	11*	8*						39 50
Totals	393	40	101	4,219	21,798	4,416	68,064	\$25,963 75

*Issued to band at half price.

ACCOUNT OF TICKETS SOLD.

(Library and Ticket Office.)

RECAPITULATION.

448 Double Season Tickets at \$5.00.....	\$ 2,240 00
42 Single Season Tickets at \$3.00.....	126 00
101 Children's Season Tickets at \$1.50.....	151 50
11 Double Season Tickets to members of the band at \$2.50.....	27 50
8 Single Season Tickets to members of the band at \$1.50.....	12 00
1,218 Members' Double Season Tickets at \$2.50.....	3,045 00
27 Members' Single Season Tickets at \$1.50.....	40 50
89,862 Adult Single Admission Tickets at 25c.....	22,465 50
8,675 Children's Single Admission Tickets at 15c.....	1,301 25
1,014 Adult Excursion Tickets S. F. & N. R. R. Co., at 20c..	202 80
83 Children's Excursion Tickets S. F. & N. P. R. R. Co., at 12c	9 95
	<u>\$29,622 00</u>

P. J. HEALY,

E. P. HEALD,

R. P. DOOLAN,

Committee on Tickets and Admissions.

REPORT OF FINANCE COMMITTEE.

To the President and Board of Trustees of the Mechanics' Institute—

Gentlemen: We herewith present a report of the financial matters pertaining to the Twenty-ninth Industrial Exposition.

EXPENDITURES.

Advertising—

Abend Post.....	\$ 23 25
Bulletin	169 00
Call	275 80
California Adsigns Co., bill posting and stands	48 00
California Demokrat	24 50
Chronicle	345 10
Examiner	319 55
Foster, J. F., hanging cards in railroad cars	50 00
Horn Hong & Co.....	10 00
L'Italia	5 00
La Voce del Popolo.....	5 00
Le Franco Californien.....	10 00
Le Petit Californien.....	2 50
Mysell, Rollins Co., printing cards for railroad cars.....	15 50
Oakland Enquirer.....	10 00
Oakland Journal.....	5 00
Oakland Times.....	40 00
Oakland Tribune.....	40 00
Post	169 00
Report	184 00
Siebe & Green, bill posting.....	22 75
Sterett Printing Co., flags for street cars.	18 00
Tageblatt	11 50
Wood, R. M. Co., printing art posters....	111 00

\$ 1,914 45

FINANCIAL EXHIBIT.

13

Aquarium—

Alexander, Geo. Webb, hose.....	\$ 8 60
Burges, C. A., molding.....	17 17
California Fish Commission, procuring fish and maintaining exhibit.....	250 00
Caire, J. Co., netting, etc.....	11 37
Central Lumber & Mill Co., lumber.....	71 22
Cohen, I., putting in glass.....	78
Cronan, Wm., strainers.....	50
Ernst, Henry, plumbing, etc.....	176 50
Formhals, F., air injectors.....	32 02
Fuller, W. P. & Co., plate glass.....	55 22
Furlong, Thos., cement work on three new tanks	120 00
Goodyear Rubber Co., tubing.....	12 45
Holbrook, Merrill & Stetson, pipe, etc....	36 65
Joost Bros., hardware.....	4 90
Lewin, R., blacksmithing.....	5 55
O'Brien, J. J. & Co., muslin.....	1 00
Pay Roll, workmen constructing tanks, tending fish and running air compressor	105 00
Ralston Iron Works, iron frames for three new tanks.....	61 40
Reilly, C. J., rent of Hyatt Filter.....	80 00
Rix Compressed Air Machinery Co., rent of pressure reducing valve.....	5 00
Root, Henry, sundries.....	2 60
S. F. Novelty & Plating Works, braces..	25 00
Strauss, Levi & Co., cloth.....	6 08
Union Ice Co., ice.....	63 80

\$ 1,152 81

Art Department—

Cumming, Joseph M., gummed numbers.\$	1 80
Insurance on pictures, London & Lancashire Insurance Co.....	65 00
Insurance on pictures, F. B. Reynolds...	129 50
Morris & Kennedy, repairing picture frame	75
Pay Roll, employees in Art Gallery, workmen hanging pictures, etc.....	278 50
Penn, John, cartage on pictures.....	130 60
Raschen, Henry, salary as Art Director..	250 00

Raschen, Henry, petty expenses.....	8 80
Winterburn, Jos. Co., printing labels and cards	4 00
	\$ 868 95

Building—

American Oil and Paint Co., paint.....	\$ 19 90
Alexander, Geo. Webb, castors for band stand	8 00
Butcher, L. H. & Co., paint.....	17 25
Cal. Mills, lyres for band stand.....	7 80
Central Lumber & Mill Co., lumber.....	155 60
Cronan, Wm., flashings.....	75
Ernst, Henry, plumbing.....	91 80
Fuller, W. P. & Co., glass for sky-light in Art Gallery.....	36 75
Huber, Frank, sash for sky-light in Art Gallery	20 19
Holbrook, Merrill & Stetson, buckets, etc.	13 75
Joost Bros., hardware, etc.....	140 18
Lewin, Robert, blacksmithing.....	20 65
Pay Roll, wages of carpenters, painters, etc.	487 25
Pence, J. W., straightening girder.....	10 00
Schafer & Stadter, glazing.....	75
Scott & Van Arsdale Lumber Co., lumber for band stand	34 73
Snell, E. L., lime.....	5 00
	\$ 1,070 35

California Association of Art Patrons—

Amount paid artists for pictures distributed in Art Drawing.....	\$ 132 00
--	-----------

Decorations—

Cahill, J. L. Co., bunting in gallery ends.	30 00
Duhem, A., plants for band stand.....	5 00
Pratt, F. E., decorating main building and annex.....	174 92
Schafer & Stadter, decorating entrance..	4 50
Schafer & Stadter, decorating band stand	55 00
Strauss, Levi & Co., bunting, etc.....	213 35
	\$ 482 77

Expense—

American District Telegraph Co., messengers	\$ 63 10
Bien, Jos., changing combination on vault	5 00
Cahill, J. L. Co., painting sign and removing same.....	24 50
Clark, C. H., agent, petty expenses.....	26 50
Comechie, J., removing dirt.....	38 25
Commissions on sale of Season Tickets..	8 75
Crocker, H. S. Co., ticket punches.....	6 75
Cronan, Wm., ticket boxes, etc.....	11 50
Cumming, Joseph M., Secretary, petty expenses	60 85
Day, G. F., load of shavings.....	3 00
Doerrer, W. G., signs.....	40 20
Fitzgerald, J. H. locksmithing.....	2 50
Gilmore, J. H., Superintendent, petty expenses	19 15
Gottlob and Friedlander, rent of Columbia Theater for Opening Exercises.	100 00
Gundlach-Bundschu Wine Co., expenses of pump, etc., for waterfall in exhibit..	178 21
Huber, A., ballot boxes, etc., for voting contest	12 00
Herring Hall Marvin Co., changing safe combination	2 00
Klinkner, C. A. & Co., stars for watchmen	8 00
Klein, J. M. Electrical Works, bell hanging, etc.....	33 33
Jackson, J. A., petty expenses.....	12 10
Lake & Co., dusters, etc.....	17 60
Montague, W. W. & Co., repairing stove.	3 00
Neville & Co., repairing flags.....	1 50
Osborn Hardware and Tool Co., ticket punches, etc.....	7 25
Pacific Telephone & Telegraph Co., telephone service.....	88 30
Plum, C. M. & Co., window shades, laying carpet, etc.....	20 15
Porcher, J., hats for watchmen.....	12 75
Presson, Geo. R., telegrams, etc.....	12 30
Progressive Window & House Cleaning Co., cleaning windows and skylights..	80 00
Rivers Bros., soap, etc.....	8 70

Spaulding, J. & Co., cleaning carpets.....	4 75
Strauss, Levi & Co., cloth.....	9 48
Supplies for jurors, Governor's Night Special Night Committees, Scotch Night, Irish Night, Commercial Travel- ers' Assn., Olympic Club, Veteran Fire- men and others.....	287 05
Walkup, W. B., frames for posters.....	3 00
Wangenheim, Sternheim & Co., glasses for wine jurors.....	3 00

Special Day Expenses.

Opening Night, fire works and bon fire...\$	68 00
Scotch Night, pipers and advertising meeting	29 65
Chinese Night, Chinese band.....	18 00
Baby Day, September 9th, ribbon.....	3 60
Olympic Club Night, cartage on appa- ratus, etc.....	11 50
Veteran Firemen's Night, cartage and caring for engine.....	16 50
German Night, expenses of singers, re- freshments, etc.....	72 00
Carrier Pigeon Contest, cartage of cages, etc.	17 25
French Night, expenses of singers.....	17 50
Turn Verein Night, cartage, etc.....	4 50
Baby Day, Sept. 26, ribbon, etc.....	15 50
Y. M. C. A. Night, cartage, etc.....	8 00
Governor's Night, carriages, etc.....	17 50
Typewriting and rent of typewriter for correspondence regarding special events	27 50

\$ 1,541 52

Lighting—

Bush and Mallett Co., fittings, etc.....\$	62 10
Edison Light and Power Co., construc- tion and electric light.....	831 45
Pacific Gas Improvement Co., gas.....	1,239 20
Pay Roll, wages of gas man and helpers.	385 50

\$ 2,518 25

Machinery—

Arctic Oil Works, oil.....\$	6 50
Bowers Rubber Co., packing, etc.....	29 89
Clot & Meese, hangers, etc.....	24 09
Cronan, Wm., pipe.....	2 90
Day & Hunter, heater.....	300 00
Dow Steam Pump Works, repairing pump	19 95
Dunham, Carrigan and Hayden Co., sun- dries	12 55
Ernst, Henry, steam fittings.....	10 00
Evans, C. H. & Co., pipe for tank.....	3 25
Garrall, W. T. & Co., oil cups.....	1 40
Holbrook, Merrill & Stetson, fittings.....	18 47
Oregon Coal & Navigation Co., 7 tons, 1,310 lbs, Coos Bay average coal at \$4.40 per ton.....	33 37
Oregon Improvement Co., 105 tons, 1,560 lbs, Welsh Anthracite Coal, including engine and blower for forced draft, at \$6.45 per ton, less cartage on coal re- turned	683 85
Pay Roll, wages of engineer and firemen.	440 50
Payne's Bolt Works, bolts.....	1 80
Wickson, G. G. & Co., rent of auxiliary engine and engineer's wages.....	154 50

\$ 1,743 02

Music—

Hinrichs, Gustav, 38 musicians and lead- er, 29 days.....\$	5,800 00
Knickerbocker Quartette, vocal music...	48 00
One man orchestra, afternoon Sept. 9th..	5 00

\$ 5,853 00

Premiums—

Brand, H. J., gold medals.....\$	140 00
Cash Awards—Perham W. Nahl, certifi- cate design.....	50 00
Cash Awards—G. Dietz, certificate design	20 00
“ “ Deborah Hollingsworth, Admission Day Poem.....	25 00
Cash Awards—Awards for best exhibits ready Opening Night.....	500 00

Cash Awards—Floral Day Awards.....	150 00
“ “ Art Department Awards..	930 00
“ “ Fancy Work Awards.....	57 00
“ “ Award for Display of	
Wheat	10 00
Griffith, J. H., engrossing certificates....	57 62
Hammersmith & Field, premiums for Bi-	
cycle Night, Baby Days, etc.....	193 00
Leavitt, S. B. Paper Co., paper for cer-	
tificates	17 50
Nahl, Perham W., engraving and print-	
ing certificates.....	94 00
Sundry expenses, ribbons and seals for	
certificates, delivering certificates, etc.	27 75

\$ 2,271 8½

Printing—

Brunt, W. N., Trustees' Badges, etc.....\$	7 00
Britton and Rey, complimentary tickets.	17 50
Cubery, W. M., preliminary announce-	
ments, circulars, etc.....	45 75
Cumming, Joseph M., sundries.....	50
Eastman, Frank Co., cards.....	3 00
Galloway Lithographing Co., letterheads.	15 00
Hinton Printing Co., voucher covers, etc.	6 25
Hicks, Judd Co., applications for em-	
ployees' tickets, etc.....	7 75
Mysell, Rollins Co., programs for Open-	
ing Exercises.....	13 00
Payot, Upham & Co., premium lists,	
tickets, etc.....	492 80
Spaulding, Geo. & Co., cards.....	4 50
Winterburn, Jos. Co., art catalogues, cir-	
culars, Cal. Assn. Art Patrons' tickets,	
etc.	128 60
Wood, R. H. Co., cards.....	3 00

\$ 744 65

Salaries—

Amount paid for services of Superin-	
tendent, Agent, Clerks, Watchmen,	
etc.	\$ 6,278 25

Stationery—

Alexander, L. M. & Bro., typewriter sup-	
plies	\$ 4 50
Crocker, H. S. Co., sundries.....	7 75
Crocker-Langley Co., Directory.....	5 00
Hill, E. W., typewriter supplies.....	1 75
McIntyre, J. B., register of exhibitors..	5 50
Moise, L. H., rubber stamps.....	1 50
Payot, Upham & Co., sundries.....	42 63
Stamps, postals, etc.....	10 20
Tauzy, J. & Co., envelopes.....	5 32

\$ 178 15

Water—

Spring Valley Water Works, water used..\$	485 70
---	--------

\$27,235 74

RECAPITULATION OF REVENUE AND EXPENSES.

Revenue—

Sale of tickets.....	\$29,622 00
Sale of privileges.....	5,389 16
Sale of Art Catalogues.....	95 70
Sale of Art Posters.....	1 50
Gas and electric light to exhibitors.....	126 84
Duplicate certificates of award.....	61 00
Subscriptions to Cal. Association of Art	
Patrons	135 00

\$35,431 20

Expenditures—

Advertising	\$1,914 45
Aquarium	1,152 81
Art Department.....	868 95
Building	1,070 35
Cal. Assn. Art Patrons.....	132 00
Decorations	482 77
Expense	1,541 52
Lighting	2,518 25
Machinery	1,743 02

TWENTY-NINTH INDUSTRIAL EXPOSITION.

Music	5,853 00
Premiums	2,271 87
Printing	744 65
Salaries	6,278 25
Stationery	178 15
Water	485 70
	\$27,235 74

Net profit of Fair, transferred to
Mechanics' Institute \$ 8,195 46

Respectfully submitted,

GROVE P. AYERS,
HOWARD C. HOLMES,
GEO. R. PRESSON,
Finance Committee.

PRELIMINARY ANNOUNCEMENT

OF THE

Twenty-ninth Industrial Exposition

OF THE

MECHANICS' INSTITUTE.

The Mechanics' Institute announces that its Twenty-ninth Industrial Exposition will be open to the public from Tuesday, September 1st, to Saturday, October 3d, 1896, inclusive. The feature of the forthcoming Fair will be an Exposition of the Industries of California, to which end the efforts of the managers will be specially directed.

The Mechanics' Institute is and always has been the earnest exponent of "Home Industry," and the experience of the past will be joined to the energy and enterprise of the present in making this feature the controlling and predominating one in the Twenty-ninth Exposition.

Although recent Industrial Expositions have adopted rules which entail directly or indirectly heavy expenses on exhibitors by charging for space, power, etc., the Mechanics' Institute sees no reason why it should deviate from its past practice of allowing exhibitors to enter and maintain acceptable exhibits free of charge, and the Board of Trustees of the Mechanics' Institute announce that as heretofore there will be no charge for space, power, water, or general lighting, and that all exhibitors will be placed in this respect on the same plane.

The Exposition Building is situated in the heart of the City of San Francisco, adjoining the City Hall, and is reached directly by all the car lines, and is within fifteen minutes' ride of all the ferry and railroad stations.

It occupies an entire block of land, and is surrounded on all sides by wide streets. It has a floor area of 150,000 square feet; the main nave is 412 feet long, 100 feet wide, 80 feet high, and has a Promenade Gallery surrounding it 825 feet long by 16 feet wide.

The building will be brilliantly illuminated during the evening and admirably lighted during the day.

Ample power will be supplied exhibitors without charge, including all necessary shafting, pulleys, etc.

Orchestral music by a band of sixty of the best musicians under the most distinguished leader the country possesses will add to the other attractions of the Exposition.

The Art Gallery is 280 feet long and 50 feet wide, and will be made a source of especial attraction to visitors.

The Restaurant and Cafe will be in charge of a responsible and experienced caterer, and all other necessary conveniences and comforts for visitors and exhibitors will be provided.

A Telephone and Telegraph exchange will be established in the building, as also a Reading Room supplied with all the current newspapers.

There will be no better opportunity for the manufacturers and producers of California to place in an advantageous manner before those interested and the public at large, the result of their skill and industry, as the purpose of the management is to make this essentially, a grand Exposition of California's Industrial and Natural Productions.

These Expositions held by the Mechanics' Institute are and always have been exceedingly popular, as from 250,000 to 400,000 visitors from all parts of the Pacific Coast and abroad have attended each Fair, the building being crowded afternoons and evenings.

The Mechanics' Institute has a membership of 4715, and the proceeds of these Expositions are devoted to the building up and the maintenance of a large and growing library, free lectures and classes, and the dissemination of information.

No individual right in the property of the Institute (which is quite valuable) exists or can ever be acquired by its members, it

is an educational institution carried on by small subscriptions for the benefit of the City and State, without cost to the State, and the Trustees bespeak for it your earnest support and co-operation in carrying out the purposes for which it was organized, and for which it has been maintained by the voluntary and disinterested services of the members.

Communications will be addressed to J. H. Culver, Secretary Twenty-ninth Industrial Exposition, 31 Post St., San Francisco, Cal.

By Order of the Board of Trustees.

A. S. HALLIDIE, President.

ERNST A. DENICKE, Recording Secretary.

San Francisco, February 4th, 1896.

PROSPECTUS

OF THE

Twenty-ninth Industrial Exposition

OF THE

MECHANICS' INSTITUTE.

HOME PRODUCTS EXPOSITION.

Confined exclusively to the Products of the Pacific Coast, under the auspices of the Mechanics' Institute and the Manufacturers and Producers' Association of California. Mechanics' Pavilion, San Francisco, California, September 1 to October 3, 1896.

By resolution of the Board of Trustees of the Mechanics' Institute and the Board of Directors of the Manufacturers' and Producers' Association of California, it has been decided to hold an Exposition at the Mechanics' Pavilion in San Francisco, Cal., commencing September 1st, and closing October 3d, 1896.

This Exposition will differ from any held heretofore, as the display will be confined exclusively to the manufactures and products of the Pacific Coast.

The Mechanics' Institute is and always has been the earnest exponent of "HOME INDUSTRY;" and the Manufacturers' and Producers' Association has been vigorously advocating "KEEP THE MONEY AT HOME," and "PATRONIZE HOME INDUSTRIES," for the past year until it has awakened a new feeling among the people, one of greater interest in the industrial development of the State and an evident desire to buy Home Products.

It is believed that an Exposition of purely Pacific Coast manufactures and products will result in great good and will be the

PROSPECTUS.

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means of bringing the consumer and manufacturer or producer into closer relationship. There never has been an Exposition of this exclusive character held in San Francisco, and the great variety and superior quality of a full and complete display of the articles manufactured or produced on this Coast will be one that will prove a gratifying surprise to the people.

It is intended to make the Exposition the most instructive and interesting one of the kind ever held in San Francisco.

A special feature will be in making it a vast factory wherein the public can witness the process of manufacture of almost every article exhibited. Looms will be at work making cotton, woolen and silk goods. Machinery will be in operation showing the manufacture of gloves, shoes, ladies', children's and gentlemen's wearing apparel, India rubber goods, jewelry, furniture, electrical appliances, etc. Printing and book-binding will be shown, as also the preparation of food products, the making of confectionery, perfumes, extracts, etc., besides which will be displayed marble and stone work, mining, agriculture, and dairy machinery, etc., etc. It is expected to make the fine arts display an exceptionally fine one, consisting of paintings in oils and water colors, engravings and etchings, black and white, pen and ink, and other drawings, and sculpture. Special efforts will be made to make an exceptional fine display of the works of the citizens of the Pacific Coast.

The various exhibits will comprise: Agriculture, Architecture, Clothing Industries, Electricity, Fine Arts, Food Products, Furniture, General Industry, Historical Collection of the Pacific Coast, with exhibits pertaining to its geographical features and undeveloped resources; Leather, Lighting and Heating, Machinery, Medical, Printing and Book Binding, River and Sea Fishery, Sanitary, Transportation.

It is intended that no person shall be debarred from attending the Exposition on account of expense, and, therefore, the admission fee will be placed at 25 cents for adults and 15 cents for children, for single admission.

Interesting entertainments will be provided, consisting of vocal and instrumental music, by professional and amateur home talent. Exercises by the school children, and exhibitions by the military and athletic associations. Short addresses will be made nightly, by prominent citizens, on the object of the Exposition, and every effort will be made to keep uppermost in the minds of the people the benefit to be derived by them in standing by and upholding their Home Industries.

Competent and qualified Jurors will be carefully selected to adjudicate upon the merits of the various exhibits and make proper distribution of awards thereon, which will consist of cash premiums in some cases and in other instances of certificates bearing the full indorsement of this Exposition as to superiority or quality.

Portions of all programs, catalogues, etc., will be devoted to preaching "Keep the Money at Home," with the result that an Exposition of this character will afford Manufacturers and Producers an opportunity to come before the public that they have never enjoyed before.

It is desired that those who wish to exhibit will make application for space immediately. As it is in great demand, those making the earliest application will naturally be favored as to location. Space, power, ordinary lights and water will be furnished free.

Applications for space should be forwarded to Carl H. Clark, Agent Mechanics' Institute, 31 Post Street, or S. H. Tacy, Manager Manufacturers' and Producers' Association, Room 2, sixth floor, Mills' Building.

The Pavilion will be open for the reception of exhibits on August 17, 1896.

Committee of Management: E. A. Denicke, President, E. P. Heald, Rec. Secretary, Mechanics' Institute; Horace Davis, President, Lewis R. Mead, Secretary, Manufacturers' and Producers' Association; Grove P. Ayers, Mechanics' Institute; W. F. Bowers,

Manufacturers' and Producers' Association; E. H. Cole, Mechanics' Institute; H. J. Crocker, Manufacturers' and Producers' Association; P. J. Healy, Mechanics' Institute; Rodney Kendrick, Mechanics' Institute; Oscar Lewis, Chairman, Mechanics' Institute; Geo. R. Presson, Mechanics' Institute; S. H. Tacy, Manufacturers' and Producers' Association.

NOTE—The above is a copy of the circular issued after the Mechanics' Institute Trustees resolved to hold the Fair under the joint auspices of the Mechanics' Institute and the Manufacturers' and Producers' Association:

HOME INDUSTRY.

In presenting the prospectus, rules and premium list of the forthcoming Industrial Exposition devoted exclusively to the manufactures and products of the Pacific Coast, and held under the auspices of the Mechanics' Institute and the Manufacturers' and Producers' Association of California, the management desires to impress upon exhibitors the desirability and even necessity of making their displays as prominent and attractive as possible, in order that every advantage may be secured in presenting their industries to the public, and which will daily be brought to the notice and attention of thousands of visitors from not only this city but all parts of the coast as well. The plan adopted as promising the greatest and most permanent results is the display of Pacific Coast Manufactures and Industries in active operation in the Pavilion. This does not mean, of course, that all the processes of each industry are to be in active operation, but that, in addition to the display of the manufactured article, some characteristic process connected with the production of the finished article will be performed by skilled operatives.

This form of exhibit is not only instructive, but is the most attractive to visitors, and consequently of greatest benefit to exhibitors, and at the same time the collective effect of an Exposition of this character is to force the conviction that manufactures of great importance and variety are in operation on this Coast, and that it is not necessary to go from home for any of the necessities and luxuries of life.

That such an Exposition must be of great and lasting benefit to this Coast is beyond question, and with this in view it has been decided to give special prominence to Industrial and Manual processes in actual operation in the Fair. It is therefore strongly urged upon all Exhibitors, where practicable, to have in connection with their set exhibits, some portion of the process of manufacture in actual operation by skilled operatives.

Without the earnest and active co-operation of those engaged in these industries, the efforts on our part in this direction must avail little. The management therefore strongly urges upon all firms and individuals engaged in Mechanical and Industrial pursuits to second its efforts towards carrying this enterprise into successful operation.

No industry is so great that it can profitably ignore public recognition, and none so small that public attention will not be of benefit to it.

Representatives of all Industrial and Manual Trades and Handicrafts are invited to exhibit. None will be considered too small or insignificant to be accorded space for its display.

No charge of any kind is made for exhibition, space or power. Steam and water are also furnished free.

Awards for meritorious exhibits or superiority in the quality of the various articles displayed will consist of certificates (except where other provision has been made), which instruments will convey to successful exhibitors the full and unqualified indorsement of the Mechanics' Institute and the Manufacturers' and Producers' Association of California as evidence of superiority over all competitors, and will only be issued to exhibits reaching high standards of excellence.

In order to promote and encourage our native talent in the fine arts and sciences, premiums in cash, of substantial character, are offered, and our local artists are cordially invited to interest themselves and participate in assisting us to demonstrate to the world that our home talent can take a prominent position in the art world.

As an art center San Francisco stands unrivaled on the Pacific Coast, and with its hundreds of private galleries from which to draw, there is no reason why this Exposition should not present to the public an art exhibit of unparalleled beauty.

Attention is also directed to the cash awards which are offered upon needle work, fancy work, embroidery, etc., and it is sincerely hoped that outside of the mere monetary consideration involved, the ladies of California, with a desire to promote home

industries, will cordially respond in exhibits of this kind, which are so dear to the feminine heart.

Meritorious Exhibits, which, in the opinion of the Examining Jurors, are not entitled to a certificate, will receive in their Report recognition commensurate with their merit.

The Report of this Industrial Exposition will receive particular attention from the committee, who will endeavor to make it a volume of permanent interest. This will prove of great value to those Exhibits, which, in the opinion of the Examining Jurors, are of sufficient importance to receive recognition in the Report. Exhibitors are requested to furnish an accurate and concise description of their Exhibits for this purpose.

Intending exhibitors should apply at once for space.

The above was printed in the front of the premium list.

RULES AND REGULATIONS

OF THE

Twenty-ninth Industrial Exposition

OF THE

MECHANICS' INSTITUTE.

HOME PRODUCTS EXPOSITION,

UNDER THE AUSPICES OF THE MECHANICS' INSTITUTE AND THE
MANUFACTURERS AND PRODUCERS' ASSOCIATION.

1896.

RULE I.

All articles exhibited or sold must be manufactured or produced on the Pacific Coast.

RULE II.

The Pavilion will be opened for the reception of goods on and after Monday, August 17, 1896.

The exhibition will open to the public on Tuesday, September 1st, and continue open from day to day (Sundays excepted) until Saturday, October 3d. Hours of admission will be from 10 A. M. to 5 P. M., and 7:30 to 10 P. M., except Saturdays, when the exhibition will close at 11 P. M.

RULE III.

Articles can be entered for exhibition or competition, as desired.

All articles must be in position and receipted for, and the entry tag attached, not later than Tuesday, September 1st, excepting exhibits of fresh fruits, flowers, or vegetables not in sea-

son at the time of opening, or additions to varieties already on exhibition.

Articles intended by the exhibitor for competition, but not entered and in position by the time specified, to wit, September 1st, shall not, under any circumstances, be allowed to compete, except as provided in foregoing paragraph.

RULE IV.

The driving engine will be in operation three days previous to the opening, and exhibitors of machinery in motion will be required to have their exhibits in running order on the opening day.

RULE V.

Machinery entered for competition and requiring power must be in position and operation on or before August 31st.

Shafting, Belts, Gearing, High-Speed Machinery, and any other exhibits likely to prove dangerous, must be securely fenced and protected to the satisfaction of the Board of Trustees; but such approval shall not relieve the exhibitor from his own liability.

RULE VI.

No charge of any kind will be made to exhibitors for space. Steam and water will also be furnished free, in reasonable quantities, but all platforms, counters, ornamental partitions, show-cases, and fixtures must be erected at the expense of the exhibitors. Exhibitors and holders of privileges will be required to pay for all gas consumed by them for cooking or heating purposes, and also for all extra light more than that furnished for the general lighting of the building.

RULE VII.

Applications for space can be made at any time, and must be made as early as possible.

Blank forms of application for space will be furnished by the Secretary or Agent.

Space will be awarded as early as practicable after the application has been received.

Space allotted to applicants and not taken possession of by the arrival of their goods on or before Monday, August 24th, may be assigned to other exhibitors.

The Board of Trustees reserves the right at any time to exclude from the Exhibition all nostrums, articles of an explosive, inflammable, dangerous or offensive character, and everything they may deem objectionable.

Any exhibit of goods, which, in the opinion of the Board of Trustees, is of an improper or objectionable character, may, at the option of the Trustees, be removed at any time.

The Board of Trustees reserves the right to refuse admission to any exhibitor or employee whom they may consider to be an improper person, and also to remove the goods of such exhibitor from the building.

RULE VIII.

Exhibitors will receive from the entry clerk, on the arrival of their goods, a receipt for the same, which must be presented for their delivery at the close of the Exhibition. The receipts shall designate whether the articles entered are for exhibition or competition. When the allotment of space is definitely made, exhibitors will be notified of its location, and will be furnished with a permit to occupy the same, subject to the general rules and regulations adopted for the government of the Exposition and the special rules governing the department in which their exhibit will be made. Permits for space will not be transferable.

RULE IX.

The Board of Trustees will endeavor to select competent Examining Jurors.

Articles entered for exhibition only shall be designated by a tag attached, and be so reported by the Jurors and appear in the report of the Exposition.

Jurors must refuse a certificate of superiority to articles which do not reach a high standard of excellence, or refuse to recommend an exhibit which falls below a reasonable standard of merit.

As soon as the Jurors have reached a decision, they shall file with the Secretary a report, giving the name of the exhibitors, the articles examined, and the number of the class in which it is entered.

No award for second degree of merit will be made, unless specially provided for in the premium list.

In cases where it is not practicable for jurors to test or examine exhibits, or where models only are exhibited, they may go outside the building to make such examination or test; but the Jurors must first procure from the Board of Trustees a written consent, which must be attached to their award when filed with the Secretary, and the competitors must take upon themselves, in exoneration of the Institute or Board of Trustees, all claims in respect of damage resulting from the testings, and must renounce all claims for compensation for any injuries that may incur from imperfections in the arrangements or in the testing, or from any statement in the reports or descriptions published.

Jurors in each class will hold a meeting before making their final report, at which time exhibitors in the class may be invited to attend and explain the merits of their respective exhibits, under such rules as may be prescribed by the Committee on Management.

Should any Juror, for any reason, at any time become incapacitated from serving, the Board shall elect another Juror.

All recommendations of Jurors must be submitted to the Board of Trustees, on or before September 26th, and receive its approval before being final.

The Board of Trustees reserves to itself the right to amend, rescind or reject the report of the Jurors in any given case.

RULE X.

The announcement of awards will be made by the Board of Trustees on Monday, September 28th.

RULE XI.

Power will be furnished for driving machinery from the main lines of shafting, which are 2 15-16 inches in diameter, and will

make about 110 revolutions per minute. Driving pulleys, 30 inches in diameter, are now on the shafting in Machinery Hall for use of exhibitors. Pulleys for the main line, if furnished by exhibitors, must be accurately balanced, and have the owner's name plainly marked thereon, and should be received and placed in position by Saturday, August 29th.

RULE XII.

No article on exhibition or within the building can be removed until the close of the Fair, unless by permission of the Board of Trustees or Superintendent, in writing; but reasonable facilities for making sales of articles, for delivery at the close of the Exposition, will be afforded.

Exhibitors' cards, circulars, and samples can only be placed within their own space for distribution.

No lottery or gift enterprise of any kind will be allowed, nor shall visitors be solicited for names or signatures when the purpose is to award a consideration by chance.

Holders of privileges shall have the exclusive right to sell the article they purchase the privilege for, as may be agreed upon; but in no case shall it be construed that their purchased right debars any exhibitor from giving away in quantities, to be determined by the Management, samples of articles they may manufacture in the Pavilion or place on exhibition.

Exhibitors will be required to keep their spaces and exhibits clean and in good order, and, in cases where they are covered at night, to remove such covering by 10 o'clock A. M., and not to cover the same until ten minutes before the closing hour.

RULE XIII.

The most careful means will be taken, through the agency of the police and otherwise, to guard and protect the property on exhibition, and it will be the purpose of the Management to return all articles to the owners without loss or injury; but as the Exposition is for the benefit of the general public, and particularly for the business benefit of the exhibitors, and to add to the reputation of their wares, the Mechanics' Institute or the

Management will, under no circumstances, be responsible for any loss or injury to articles placed on exhibition, which must be invariably at owner's risk.

RULE XIV.

In order to preserve the general harmony of the Exposition, and make the display of goods attractive, the Board of Trustees reserves the right to direct the general arrangement of the articles on exhibition, and to regulate the character of all sign and advertisements.

Partitions may be erected in various parts of the building, but in no case more than four feet in height, except on the sides and ends of the gallery. Exhibitors' signs shall not be more than eight inches in width, and placed not less than eight nor more than nine feet from the floor, except on the walls of the building; and, under no circumstances, will cloth or paper signs be allowed higher than the partitions, to wit, four feet.

RULE XV.

All exhibitors will be required to purchase a double season ticket before being entitled to an employee's ticket.

Employees' tickets will be issued to such persons only as are in the employ of exhibitors who, in the opinion of the Committee on Management, require the service of an attendant, and such tickets are not transferable.

If transferred or loaned to any other person, the ticket becomes forfeited, and doorkeepers will be instructed to refuse admission and retain the ticket.

Employees' tickets found to be unnecessary for the purpose for which they were issued must be returned to the Committee on Management.

Any ticket presented at the door for admission in violation of the rules thereon shall be forfeited.

No complimentary tickets will be issued except by resolution of the Board of Trustees.

RULE XVI.

All boxes and packages containing articles for the Exposition should be marked, "Home Products Exposition, San Francisco,

Cal.," with the name and address of the sender. If the freight thereon is paid, it will be taken charge of by the Board of Trustees and removed to the Exposition building. Cartage at the expense of the exhibitor. A detailed statement of the contents of each box or package should be inclosed with the same, and a duplicate thereof sent separately, by mail or express.

RULE XVII.

The Board of Trustees do not consider the Exhibit List herewith appended as complete, nor are articles entitled to premiums limited to those hereafter enumerated, but any meritorious article on exhibition, although not herein mentioned, will receive due consideration from the Jurors.

RULE XVIII.

The Board of Trustees shall have the right at any time to modify or change these rules, or any of them, or make such others as necessity and propriety may demand, or that in their judgment will be for the best interests of the Institute.

RULE XIX.

If any goods are left at the Exposition building for a longer period than thirty days after the close of the Exposition, such goods will be stored in a public warehouse at owner's risk and expense.

CLASSIFICATION OF EXHIBITS.

- CLASS 1—
Engines, Boilers and Appliances.
- CLASS 2—
Hydraulic Machinery and Steam Pumps.
- CLASS 3—
Machinists' Tools and Metal-working Machinery.
- CLASS 4—
Wood-working Machinery.
- CLASS 5—
Miscellaneous Machinery.
- CLASS 6—
Mining Machinery and Appliances.
- CLASS 7—
Laundry Machinery.
- CLASS 8—
Fire Apparatus and Appliances.
- CLASS 9—
Marine.
- CLASS 10—
Sewing Machines, Knitting Machines, Braiding Machines
and Looms.
- CLASS 11—
Agricultural Machinery.
- CLASS 12—
Iron, Steel and Lead.
- CLASS 13—
Cooking, Heating and Ventilating.
- CLASS 14—
Hardware, Cutlery, Firearms, etc.
- CLASS 15—
Fire and Burglar-proof Safes and Locks.
- CLASS 16—Brass Works, Gas and Lamp Fixtures, Plumbers' Goods,
etc.

CLASSIFICATION OF EXHIBITS.

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- CLASS 17—
Grates and Mantels—Marbles, Artificial Stone, Earthenware,
Glassware, etc.
- CLASS 18—
Carpenters', Joiners', Carvers' and Stair Builders' Work,
Ornamental Glass Paintings, etc.
- CLASS 19—
Musical Instruments.
- CLASS 20—
Vehicles and their Attachments, Children's Carriages,
Hobby-horses, etc.
- CLASS 21—
Furniture, Upholstery, etc.
- CLASS 22—
Billiard Tables.
- CLASS 23—
Wooden Ware, Brushes, Wire Goods, Willow Ware, etc.
- CLASS 24—
Boots, Shoes, Leather, Rubber Goods, etc.
- CLASS 25—
Hemp, Cordage, Paper, Furs, Silk, Hair, etc.
- CLASS 26—
Silk, Woolen and Cotton Fabrics, etc.
- CLASS 27—
Gentlemen's Furnishing Goods, etc.
- CLASS 28—
Ladies' Furnishing Goods, Dresses, Cloaks, Millinery, etc.
- CLASS 29—
Electricity and Electrical Appliances, etc., etc.
- CLASS 30—
Scientific Apparatus, etc.
- CLASS 31—
Surgical and Dental Implements and Appliances.
- CLASS 32—
Gold, Silver and Plated Ware, Watches, Clocks, Jewelry and
Bronzes.
- CLASS 33—
Printing.

- CLASS 34—
Hairwork, Needlework, Embroidery, Shellwork, Patterns,
etc.
- CLASS 35—
Painting in Oil and Water Colors.
- CLASS 36—
Decorative Arts.
- CLASS 37—
Sculpture, Statuary and Carving.
- CLASS 38—
Engravings, Etchings, Paints, Penmanship, etc.
- CLASS 39—
Photography.
- CLASS 40—
Chemical and Pharmaceutical Products.
- CLASS 41—
Groceries, Meats, Flour, etc.
- CLASS 42—
Wines and Brandies of California Production, from Cali-
fornia Vineyards.
- CLASS 43—
Fermented Hop and Malt Products.
- CLASS 44—
Tobacco.
- CLASS 45—
Geology, Mineralogy, Zoology, Botany, etc.
- CLASS 46—
Farm Products.

ALL CLASSES.

GENERAL EXHIBITS.

Best prepared and most complete exhibit ready at the hour of opening of the Exposition.....	\$250 00
Second best exhibit as above.....	175 00
Third best exhibit as above.....	75 00

OPENING EXERCISES.

The Committee on Opening Exercises, consisting of Trustees Leggett, Kendrick and Heald, prepared for and arranged the following programme, which was successfully rendered at the Columbia Theater on Tuesday afternoon, September 1st, before a large and appreciative audience:

1. March and Cortege from "Queen of Sheba".....Gounod
2. Address.....PRESIDENT E. A. DENICKE
3. "Torreador and Andaluse".....Rubinstein
4. Soprano Solo—"Waiting".....Millard
Miss Jeanette Coleman.
5. Introduction to 3rd act of "Lohengrin".....Wagner
6. Knickerbocker Male Quartet, "In Silent Mead".....Emerson
D. M. Lawrence, R. P. Evans, D. B. Crane, L. A. Larsen.
7. Oration.....JAMES D. PHELAN, ESQ.
8. ReverieVieuxtemps
9. Recitation—"At Long Branch".....
Miss Lillian Dhu.
10. Overture—"North Star".....Meyerbeer
Music by Gustav Hinrich's Orchestra.

ADDRESS OF E. A. DENICKE, PRESIDENT OF THE MECHANICS' INSTITUTE.

Ladies and Gentlemen: I bid you a most hearty welcome to the 29th Fair of the Mechanics' Institute, which you are well aware is dedicated to Home Products entirely. In doing so it is but fitting that I should explain why we have this year departed from the time-honored custom of holding a general exhibition, and why this year's Fair is held under the combined auspices of the Manufacturers' and Producers' Association and the Mechanics' Institute. While for many preceding years Home Industries have been a very conspicuous feature of our Fairs, and last year's Exposition consisted almost entirely of articles of Home production, this year everything imported is strictly excluded. The object of this is to thoroughly advertise Home Products and educate our citizens in the many and various industries of the State. It goes without saying that we did not do this in

any spirit of enmity towards Eastern or Foreign Manufacturers, but because of the urgent need of an enlarged Home market for our products.

You will all agree with me that the hard times we are experiencing at present can only be relieved by and through ourselves. It is no use for us to kneel in the mud and cry to Jupiter for help; the only way to get out of it is to put our shoulders to the wheel. It stands to reason that if we continue to send our hard earned money out of the State for goods that can as well be made here, good times will never come. All the wealth of our fields, orchards and mines will not suffice to save us from poverty, for all the profit which may be derived from them will, if this course is pursued, surely find its way out of the State. Instead of enriching our own people, all moneys so made will disappear into the pockets of Manufacturers elsewhere and into the Treasuries of Transportation Companies.

It is a well-known fact that any country which does not possess Manufactories must ultimately become poor. That we do possess Manufactures of which we have every reason to be proud is proved beyond doubt by this Exposition. The vital question is, therefore, why not patronize them? thereby keeping for Home circulation money now shipped East, the exodus of which is throwing thousands of our Citizens out of employment, thereby greatly impoverishing the State.

Although we are in the middle of harvest, large numbers of unemployed men throng the thoroughfares of the City, and it is estimated that there are in San Francisco over five thousand vacant tenements, stores and shops. A situation like this certainly demands that every inhabitant should exert himself to the utmost to find the proper means of relief. Among them one of the most direct and efficacious is to stop the influx of manufactured goods which are in competition with Home productions. In other words, by patronizing the Industries of the State, insure employment for its Citizens.

We are all more or less the slaves of habit, and when we have accustomed ourselves to certain brands of imported goods we are apt to imagine that we can not do without them. Now, we propose to show you at this Exposition that you can at least do without many of them, that you can find in this large and fine exhibit of Home production, articles in every respect worthy to take their place.

It is for these reasons that the Mechanics' Institute and the Manufacturers' and Producers' Association have joined hands.

Now it is for you to come to the Pavilion and be convinced—learn the lesson taught by Goethe, "Willst du immer weiter Schweifen? Sieh, das Gute ligt so nah." "Why in the distance seek the good which lies so near?"

In the matter of using Home products, as in doing our duties as citizens, we should not rely too much on our neighbors, but attend to the business in hand ourselves. It may require an extra effort or even some small sacrifices to interest ourselves in the Home production market, but nothing comes of nothing and without some effort, some self-denial, nothing which is worth possessing can be obtained—neither learning nor riches—honor nor enjoyment.

As it is with our City and State, so it is with the Country at large. Every year over one hundred thousand American tourists carry to Europe \$125,000,000 in good American gold coin—that sound money of which so much is heard at present—to say nothing of the millions which are sent abroad every year for clothing, furniture, jewelry and many other things which could be obtained as good or better in this Country. Again, out of every 100 Americans who visit Europe it would be safe to say that not five of them have visited the natural wonders of their own Country. While Europe does not excell us in natural attractions, it certainly offers better roads, more luxurious accommodations and a higher standard of art. If, however, our people would patronize the Yellowstone Park, the Alaskan Glaciers or the Yosemite Valley as liberally as they do the Alpine Heights of Switzerland, the roads and accommodations would soon be improved to meet the increased demands. As to the art standard, if only half the money which now goes into the hands of European picture dealers was expended with the local artists, it would soon be raised as high as that of any nation on Earth. Let this be done and the supply would soon meet the demand. State art schools should be founded as we now have State Universities. We should have State and City Art Galleries, receiving regular appropriations, and our artists would hold up their heads proudly. Now, the majority who patronize art send all their money to Europe for pictures—hence the comparatively low standard of American art. If our rich men spent their leisure time at home the theatrical profession would be greatly benefited, and to ensure the highest dramatic art every one of the larger Cities in the Union should subsidize one or more theaters for the production of operas and plays of the greatest merit. When so many of our people do not go abroad we shall have all these things and some others; then the tide of tourists will be turned, and more people from abroad will come to us.

Now if you were to ask me what all this has to do with our Fair, I should reply that it relates pertinently to Home Productions and advanced civilization. "The Gods help him who helps himself." However, I am happy to say that all kinds of Home production are being more and more appreciated. Even our New Charter provides for it by protecting Home learning. What we offer to you, this year for

your inspection, approval and enjoyment has been prepared with great care, and is the result of thoughtful and conscientious work for months by the Trustees of the Institute and Officers of the Association. Whoever has not undertaken a like task can have no idea of the amount of labor and care expended and the many complications arising from day to day in the arranging of such an Exhibition. The Board of Trustees direct the work from beginning to end, and many giving their entire time to the task, content in the consciousness of having prompted the welfare of the community and that they are fostering a great public benefit, by which both knowledge and pleasure is imparted.

No Exposition under the auspices of the Institute would be properly introduced to your notice without a word or two about our Library on Post street, for the support and development of which these Mechanics' Fairs are partly given. This, then, is a proper occasion to call your attention to the fact that the Library now contains 75,000 volumes of carefully selected works, and that for books of Mechanical reference it ranks among the best in the world. The three upper floors of the building on Post street contain spacious and comfortably furnished Reading and Chess Rooms; the lower floor is fitted up as a Class Room, where Mechanical and Free-Hand drawing, Electricity and Mathematics are taught. In fact, it is one of the most complete and flourishing Institutes of the kind in these United States. The fee for membership to this grand Library and its convenient adjuncts is only 50 cents per month, and I hope that the 29th Industrial Exposition will add many new names to the roll of our membership.

Mr. Bryan in his New York speech said that the Farmer to-day had to sell double the quantity of produce to pay off his indebtedness to the Banker than he had to some years ago, and that taxes, railroad rates, etc., are as high now as they were in 1891. Well, Mr. Bryan can not shake his curly locks at the Managers of this year's Exposition, for although we have double the attractions we have reduced the admission price one-half. Surely this should be the most popular Fair on record, with its many great attractions and an admission fee of only 25 cents.

In conclusion let me once more say you are welcome—welcome, and thrice welcome, to the Pavilion, where I hope we shall often meet.

ORATION BY JAMES D. PHELAN.

THE NEW SAN FRANCISCO.

If, long years ago, a Spanish imperial commissioner were directed to visit Central and Northern California and lay the foundation for a great city, what site, judge you, would he have selected? In the light of the present there can be but one answer; but, surprising as it may appear, the eligibility of San Francisco was not only disputed under such circumstances, but condemned as a place even for human habitation.

Don Pedro de Albornoz was, in July, 1796, ordered by the Viceroy of Spain to examine and report on the most suitable location for the Villa of Branciforte. He examined the country about Santa Cruz, Santa Clara, and San Francisco, and reported that in and about the Mission and Presidio of San Francisco there was no irrigable, pasture or grain lands, no water, no timber, "and therefore," he adds, "I am convinced that the worst place or situation in California is that of San Francisco." In spite of this evil report, however, we find the Mission of San Francisco Dolores, thirty years later, in 1825, possessed of over one hundred and fifty thousand head of horses, cattle, and sheep, besides thousands of bushels of wheat. But agricultural pre-eminence is not claimed for San Francisco, and hence we greet the views of Captain Benjamin Morrel, a more sensible and far-seeing person than the Senor Albornoz, who visited the port in the same year, and who declared it to be the finest harbor in the world, and that the presence of enlightened men was only necessary to give the landscape "a soul and a divinity." Between that date and 1835 a new population, small in numbers, must have settled in the cove of Yerba Buena, now the city, for Richard H. Dana, in his "Two Years Before the Mast," modestly assumes the role of a prophet when he says he beheld at that time a town composed of Yankee-Californians called Yerba Buena, "which promises well."

After the discovery of gold, the pioneers found in the quiet little hamlet a hospitable welcome, and temporarily made it their abode, but such of them who thought at all about the possibility of a large city growing on the Bay of San Francisco gave Yerba Buena little heed. They located cities further up the bay, near the mouth of the San Joaquin river, and General W. T. Sherman, who surveyed many such sites, and confidently took town lots in partial payment for his services, describes, in his Memoirs, the failure of these enterprises. One after another they dissolved, with the hopes of their founders.

CITIES ARE A GROWTH.

Cities are a growth. They come by a commercial evolution. The development of San Francisco, located on a sterile peninsula, has always been regarded as a marvelous fact. Its discoverers and its founders did not behold with the eyes of commerce the superb gateway through which must pass the traffic of a thousand lands, nor could they foresee California's wealth of fruits, grains, ores, and manufactures, of which San Francisco is the natural emporium.

But on the map of the world the great bay and harbor, opening into 76,000,000 miles of ocean, was stamped by the hand of Fate and destined for empire, and passing generations, now floating on the tide of fortune, dimly conscious of the greatness of their metropolis, little appreciate the strength of their position and the value of their heritage. We are, perhaps, too close to the object to take an extensive view. We have groveled too long in the slough of self-depreciation, and should arouse ourselves to the dignity of our citizenship, and more particularly to the duties of the hour.

THE CITY AS SEEN BY OTHERS.

Let us for a moment take the impressions of others: James Antony Froude, the historian, says in his "Oceana," written in 1886, that he found himself landed in San Francisco with a sort of youthful excitement, for California, with its gold and its cornfields, its conifers and its grizzlies, its diggers and its hidalgos, was to him a land of romance—the wonders of which passed belief. Nor was he disappointed, and in his critical comment says that San Francisco is now one of the most important cities in the world, destined to expand into dimensions of which the present size of it is nothing, for it is and must be the chief outlet into the Pacific for the trade of the American continent. And later, James Bryce, in his "American Commonwealth," digresses to exclaim: "Few cities in the world can vie with San Francisco, either in the beauty or in the natural advantages of her situation; indeed, there are only two places in Europe—Constantinople and Gibraltar—that combine an equally perfect landscape with what may be called an equally imperial position. * * * The air is keen, dry, and bright, like the air of Greece, and the waters not less blue."

NATURE ON OUR SIDE.

So nature has dowered San Francisco. The accident of the gold discovery brought a superior population, yet with no set purpose of settlement, nor inspired by any civic pride in the founding of a commonwealth. There was no community of interests. Men were here for fortune, on whose wings they hoped to fly away when she smiled upon their suit.

But San Francisco went ahead, calm and irresistible, by the force of her position. Destroyed by fire, she rose in fairer form. Pillaged by her custodians in the name of "law and order," despoiled of her lands by fraud or by conspiracy, as in the time of Peter Smith, or, as subsequently, by Supervisors and City Attorneys; compelled to suicidally surrender her water front to the State in order to avoid a threatened private monopoly; betrayed by her legislators in the granting of valuable franchises for long terms without reversions, safe-guards, nor consideration, she has been the outraged and neglected foundling of Fate, surviving simply because there is a necessity that she should live. She lives for a purpose. She lives to serve as the hand-maid of commerce between the western shores of the United States and the lands facing the great Pacific; she lives to preserve the ocean free for the carriage of California's wealth; she lives to be a capital of an empire, and to foster the arts of peace; to yield for her citizens the fruits of a civilization, riper and better than those which gladdened the Athenian heart and fulfilled the Roman's boast—"to be a Roman was greater than to be a King."

Nature, I repeat, has endowed our city—it is for the people to administer the trust.

THE PAST A BLACK PAGE.

The past has been a black page when we measure results by opportunities. Commerce has been crippled and diverted; the city has fallen prey to a transportation conspiracy; American goods have even been shipped to Europe and reshipped to San Francisco, in order to save the prohibitory rates imposed for direct shipment; harbor rates and pilot charges have despoiled the weary merchantman; an iron monopoly, short-sighted, perverse, and aggressive, has turned our back upon the serviceable sea, paid largesses to steamship companies to stifle ocean traffic, and has made New Orleans the real port of California. In fact, our peerless position as an entrepot has been turned against ourselves to satisfy private interests, and the people have not yet effectually established the self-evident principle that quasi-public corporations have their charter from the State to serve it, not to oppress it; to develop its resources, not to crush them; to use its natural advantages, and not to lock them up.

Independent railways, however, from San Francisco into the interior will restore our city as a port and give the country the advantage of the sea; the passing of the Central and Union Pacific system into the control of the government, or of rival corporations, and the construction of an isthmian canal will stimulate intercourse with distant points and insure competitive rates, and thus the future may, in some measure, atone for the sins and omissions of the past.

When we consider that the early settlers had only a temporary

interest in the metropolis, perhaps it would be unreasonable to look for that stern and potential burgher spirit which animated the builders of medieval towns and established free cities, and guarded so zealously the rights of the community.

THE BURGHER SPIRIT.

But who shall say that spirit is wanting in the people of San Francisco to-day? Has there not been a metamorphosis? Do not the Traffic Association, the North American Navigation Company, the Valley road, the Merchants' Shipping Association, the Mechanics' Institute, the Manufacturers' and Producers' Association, the Merchants' Association, and the improvement clubs speak for something? Have they not awakened the citizens to a realization of the fact that here are their firesides? Have they not, taking a broader view, convinced themselves that, provided man but supplements what nature has done, San Francisco may yet become the pride of the American continent—the ideal commonwealth, the hive of commerce, and haunt of pleasure, and the home of the arts?

But we live in our lifetime, and what is remote but lightly interests us, and hence the present generation should not fail to enjoy, in a part, at least, the certain future of their city.

Athens under Pericles, and Rome under Augustus, in the span of a few decades, rose in splendor and usefulness, and yet they are not in all respects models for the modern city to copy. Better say that in the course of thirty years under Haussman and Alphand, directors of the public works, Paris rose to a position from which she teaches the world how to provide for the necessities, comfort, and artistic cravings of civilized people living within a city's walls, and developed the fine and useful arts and sciences to an unparalleled degree, combining work and play, profit and pleasure, in such a marvelous combination as to delight and stir the emulation of mankind.

CITY GOVERNMENT.

City government presents entirely new problems since vast populations have come to be housed and cared for in prescribed limits. Manufactures, superseding agriculture, have within the last hundred years revolutionized populations; and whereas before it used to be three to one in favor of the country, now the cities have three citizens to the country's one. In these congested communities the bodily health of the race itself is determined by good or bad municipal arrangements. Infection and disease increase the death rate to alarming proportions where sanitation is not studied, and a city's prosperity reduces itself to a question of science—sanitary, engineering, educational, and governmental. Satisfactory results can not be obtained by accident, but only by knowledge and intelligence. It

becomes a matter of paramount importance for not only the attractiveness of a great city, but for its very existence, that everything about it be clean and bright and healthful; that its children be properly instructed; that the convenience, culture, and happiness of its people be an object of solicitude, and that its burdens be equitably adjusted. How these things may be best accomplished has been solved in other cities, to which I can give but a passing and incomplete notice; but let us first enquire what effect these influences have on population and prosperity.

Paris, in 1852, when public works were begun systematically, had less than a million population, and ten years later, by reason of its magnificent internal improvements and wise and industrial policy, added seven hundred thousand people to its inhabitants, and now boasts of upwards of a million more. So it would appear to be a city's lasting interest to, first, equip itself for the proper care of its people, in a broad and comprehensive sense, and then to make life worth living within its confines for all who choose to come; secondly, to provide remunerative employment for its citizens.

The trade of the French capital has grown, *pari passu*, with its municipal system, and this, as we will see, is due in a large measure, to the superior technical education of its craftsmen, and to the artistic environment of its people.

HOW TO WIN A CITY'S TRADE.

Of course, before everything else, the chief element in a city's prosperity must be the profitable employment of its inhabitants, which means a market for their productions at home or abroad. So a municipality has more to do than to keep its house clean, healthy, and beautiful—it must keep its workshop busy. Trade and commerce consist in exchange. One must exchange what he makes or has for what he doesn't make but wants. Prices remaining the same, one naturally wants the best, the most durable, the most artistic, the most palatable, the most wholesome, as the case may be. The demand of the consumer is the standard of the workman. It is true of the past that not only the question of fashion, but the question of quality as well, determined the choice of goods, and gave the preference in too many cases to the foreign product. Now, why do goods "made in France," or "made in Germany," force their way into our reluctant market? That is a question for a well organized municipality to solve. The fault is largely with our education. At one time in Europe there were craft-guilds organized to maintain the several crafts, to regulate them, to prevent fraudulent workmanship, and to transmit knowledge and skill. These have passed away, and in their place a better system has sprung up—namely, municipal trades and technical schools, which may be found in Berlin, Paris, Lille, Han-

over, Milan, and other cities, where the young are trained not in languages and music alone, which our High Schools affect, but in the useful arts, and especially in those crafts for which the locality is particularly favored. They also qualify men for civil service employment. This is the secret of the better quality of certain foreign products and manufactures, and also of sound municipal administration—the superior technical skill in these concerns of the French and German people. Therefore, to succeed we must remodel and add to our school system. James Lick, J. C. Wilmerding, Charles Lux, and Dr. Cogswell of this city have had right ideas in endowing the trades schools, and their plans should be taken up by the city itself for the preservation and development of its crafts and manufactures.

INDUSTRIAL KNOWLEDGE.

A remarkable display of the French industrial schools was made at the Paris Exposition in 1889, and revealed at a glance how Paris is kept rich and prosperous. These schools, it was shown, taught not exclusively, as ours, the elementary and ornamental branches, but the trades that pertain to wood, iron, chemistry, fruit-preserving, decorative arts, furniture, carpentry, painting, lithography, dress-making, shoemaking, artificial flower making, millinery, and so on. If we attain perfection in these things, and it can only be had by education, then we can make a home market based on merit, which will endure. Sentiment is a good thing in its place, but it cuts a poor figure in the markets of the world.

The door of knowledge is open to all. At one time it was the policy of the different countries to keep their manufacturing secrets to themselves, and as late as 1761 the British Society of Arts, in giving what is probably the first national fair, forbade drawings to be made of the machinery on exhibition. France, for instance, guarded certain industrial secrets for centuries, and they were only revealed to England and the world by the emigration of the Huguenots; and to acquire a knowledge of shipbuilding, you will recollect that Peter of Russia had to work in the low countries as a common mechanic. But with the liberalizing influence of the nineteenth century industrial fairs, such as yours, became a passport to knowledge instead of a prison-house, and the competition thereafter consisted in ingenuity and skill.

THE DUTY OF SAN FRANCISCO.

There must be a municipal policy in these respects. We elect School Directors by accident, and they follow in the old groove, showing the greatest activity when there is a vacancy to be filled or a place to be created. You can not get men fit to reorganize the schools on practical lines under the present system of election.

School Directors should be appointed on the ground of fitness alone. They may be pledged in platforms, but the platform invariably slips from under their feet as they ascend to office. If, however, the executive of the government were charged with a duty, the power of appointment and removal would give him the means of carrying out the people's will. Should not our city government then be erected on the lines of responsibility and efficiency? Otherwise, what does it avail? There is, however, in every community a class of people who oppose conservatism to progress. They lack confidence and courage. They will not brush cobwebs off their house lest the roof should fall. They lack the quality of enterprise—that magic power which, like sentiment and enthusiasm in the time of war, sweeps everything before it; which multiplies the material resources of a community by infusing into the body-politic a soul and spirit and investing it with the breath of life. It is a force which, like the genius of Hamilton, touches the dead corpse of civic pride and it springs to its feet! San Francisco is situated on the edge of the earth; so far away that our own Joaquin Miller has said that a man might drop dead and God would not know it. To enhance its prosperity it needs a larger population to consume, and a more skillful population to create, and these things will come when we have confidence in ourselves to do and to act.

The holding of this great fair annually helps to inspire confidence and self-help by giving us an introspective glance at our own resources and our own needs. It helps in other directions—it draws from all sections visitors who may come to laugh, but who will remain to pray; who come for pleasure, and who will remain as a permanent addition to our population. There are European cities that derive immense revenues from tourists and travelers, and it has been stated that the French Exposition in 1889 saved that country from bankruptcy, which otherwise would have been precipitated by the failure of the Copper Trust and the Panama Canal. Every visitor adds to the volume and flow of the circulating medium, and thus adds to the general prosperity, stimulating trade, which is "the calm health of nations." San Francisco could thus be made a great resort—a great summer and winter city—if the people, having an ideal before them, would devote their efforts to its realization from year to year.

THE POWER OF BEAUTY.

When Pericles was considering the best use to which he could put the treasures of Delos, which flowed into the Athenian treasury, he consulted the wise men of his city, who, with one accord, said: "Make Athens beautiful, for beauty is now the victorious power in the world, and that city will take precedence over others by the

charms of the beautiful, and, like a lovely woman, will win fame, admiration, love, and influence. Appreciation of the beautiful will render the citizen cheerful, content, yielding, self-sacrificing, capable of enthusiasm. What could be more enviable than a nation to whose festivals people flocked from far and near." So they put aside the gloomy and austere models of the Spartans and made Athens, garlanded like a bride, the mistress of all hearts. But we need not go to Athens. The city of Washington, with its broad and well-paved boulevards, broken only by magnificent monuments, erected in the honor of the heroes of the country, with its art galleries, museums, and parks, is one of the most fascinating of capitals. There, beauty and utility go hand in hand, and it is not too late, in spite of all the mistakes which may have been made, for the spirit of enterprise, led by Beauty and guided by Intelligence, to awaken the metropolis of the Pacific to its sense of duty and make it par excellence the home that all art yields and nature can decree. Located on the matchless bay of San Francisco, by the Golden Gate, under the bright skies, if art were given a fair field and upheld by an enlightened public opinion, there is no question but what San Francisco could also become one of the most beautiful and attractive cities of the world. All public places and buildings should be works of art, and private enterprise will follow the public initiative. Louis Napoleon appointed a Commission of Artists to create plans for Paris, and it was their influence, acting through a French engineer, which made Washington what it is. We should rise above the demands of unfeeling trade and rear columns to Balboa, who discovered the great ocean which is waiting to serve us; another to Cabrillo, who first beheld and led the way to our beloved California; to Sloat, and to Montgomery, who raised the flag. The names of these and other great men should not be allowed by a grateful people to lie in cold obstruction and to rot. They should stand in our streets as an inspiration to the rising generation. The educational value of these things, apart from honoring great names, should not be despised. Beauty, a good in itself, creates an atmosphere such as Plato described when he said that young citizens should not be allowed to grow up among images of evil, lest their souls assimilate the ugliness of their surroundings. "Rather should they be like men living in beautiful and healthy places; from everything they see, loveliness, like a breeze, should pass into their souls, and teach them, without their knowing it, the truth, of which beauty is a manifestation." But it would be idle to dwell upon the charms of an ideal San Francisco, if it were, indeed, only Utopian, but there is a way to accomplish these great ends, by stirring the public spirit of the people; by teaching them that these objects are desirable, not only for their health, comfort, and lucrative employment

of themselves and their families, but for the delight and pleasure of strangers who shall be attracted to their city, and thus add to their municipal and individual prosperity. Civic capacity will follow close upon the footsteps of civic pride!

OUR MUNICIPAL RULE A FAILURE.

The citizens of San Francisco know better than they can be told of the inadequacy of their present government; of its corruption and of its disgrace. It is a survival of the dead past. If you plant an oak in a vase, the oak must wither or the vase must break. Let the vase break! Let the tree live! The people crave for a government which will carry out their will. Bound hand and foot, they have seen themselves robbed by their own servants. Is it not a quarter of a century since work was begun on their municipal building, a type of the municipality itself, and has not that mean and extravagant undertaking, absorbed all their energies, while it has discouraged all their hopes?

"Arches upon arches, as it were that Rome,
Collecting the chief trophies of her line,
Would build up all her triumphs in one dome!"

Are we unequal to the task of municipal government? No, but our provincialism raises doubts and our incivism holds us back; yet as soon as we contemplate other cities, to whose excellence we must bow, we see that our dreams have already become their realities. It is the experience of every advanced modern city that power, responsibility, and efficiency go hand in hand. There must be in the government local autonomy, executive independence, and systematic organization, under a wise civil service; and at the same time legislative independence. The legislative body should not both appropriate money and expend it; nor should it usurp the executive functions. That is the bane of San Francisco.

THE METHODS OF OTHER CITIES.

Paris has a Council which votes money, but the Prefect of the Seine does the work. In the service of that great municipality there are employees, school teachers, policemen, firemen, street cleaners, engineers, and architects, protected by civil service laws, who survive every change of administration, so that the work goes on systematically and uninterruptedly. Without such a system no work can be done properly, honestly, and economically. While the city of Paris has a total annual revenue of \$57,000,000, only seven millions of that is derived from direct taxation, because its government has been wise enough to know that a great city which spends vast sums for drainage, for streets, for the protection of life and property, for

schools, for museums, for galleries, for parks, is, in one sense, a well equipped exposition, or market, or emporium—a place for trade and exchange, which attracts people from all parts; and that it is entitled to charge for concessions and to collect revenue from remunerative franchises, which use public property and thrive by the presence of population. So the companies which use the streets for gas, water, telegraph, and transportation, are made to contribute largely to this great fund. But in San Francisco we have but recently witnessed the humiliating spectacle of a great city betrayed by its chosen officers in these respects. Shall there be no remedy? It is for the people to answer.

CITY AND STATE.

While we should not compare small things to great things, yet it is pardonable, and may be profitable, to recall that every great country takes pride in the prosperity and splendor of its chief city. The French turn to Paris, as the Briton turns to London; the German to Berlin; the Italian to Rome; but the people of the State of California have not always loyally upheld the city of San Francisco, the centralization of its civilization and its herald to the world, in her struggle for metropolitan pre-eminence. The State looks upon the city with a jealous eye, and yet the city is the gateway to the State, and cannot but reflect honor upon it. She greets and entertains the stranger. She beneficently provides for the citizen. Her local institutions are open to all, and, even now, she is endeavoring to make a market, at home and abroad, for the products of California. Her material interests and those of the country are one; and yet, while Paris receives, on account of her representative character, from the national government of France one-third of the amount of her police budget, and even one-fifth the amount of her street expenditures, San Francisco asks nothing of the State but its good will. Shall she not have it, freely and generously?

No longer let it be said, then, of San Francisco, that, in the words of Bret Harte, she is "serene, indifferent to Fate," but let it rather be known that she is alive to her interests, conscious of her duties, and prepared to merit her destiny—manifest, but, as yet, unearned and unwon. In the competition she must meet, no relics of the past shall be suffered to retard her progress. If she would be a modern city, she must be governed by modern ideas.

On the evening of September 1st the Pavilion was thrown open, and was open for twenty-nine days.

ALPHABETICAL LIST

—OF—

EXHIBITORS AND ARTICLES EXHIBITED.

Class.

- 16 Aerating & Self Cleansing Filter Co., 927 Market street.....
..... Water Filter
- 40 Aetna Mineral Water Co., 318 Battery street....Mineral Water
- 18 Allmond, Chas. H., 211 Eddy streetInlaid Tables
- 41 American Biscuit Co., Battery and Broadway streets.....
.....Cakes, Crackers, and Fancy Biscuits
- 41 American Condensed Milk Co., 330 Pine street.....
.....Evaporated Cream and Condensed Milk
- 23 Anderson, A. N. Woodenware Co., Tacoma, Wash..Butter Tubs
- 19 Anderson, Carl C., 508 Post street.....Stringed Instruments
- 28 Ansorge, Mrs. F., 612 Pine street.....
.....Paper Flowers, Chenille and Hat Ornaments
- 21 Anthony, T. M., 1949 Market street.....Automatic Cot
- 35 Arding, Helen, 1620 Dolores street.....Flower Painting
- 18-38 Atkinson, George F., 1119 Market street.....
.....California and Pacific Coast Wood Novelties, Wood Carving
- 18 Bader & Cartwright, 11 Glen Park avenue.....Simplex Mirror
- 5-7-11-13-20-23 Baker & Hamilton, 2 Pine street.....
.....Agricultural Implements, Washing Machines, Vehicles,
.....Creamery Articles, Woodenware, etc.
- 28 Bankhead, Mrs. S., Temescal.....Comforters and Pillows
- 41 Becker, L. & Co., 244 Fifth street.....Digestive Rusks
- 40 Bennett, E. W., 630 Castro street.....Metal Polish
- 9 Benson, E. C., 212 Michigan avenue.....Models of Boats
- 25 Berwin & Gassner, 131 Post street.....Fine Furs and Garments
- 28 Bette, H., 420 Powell street.....Ladies' Tailor-Made Suits
- 40-41-46 Bibb, Newman & Ikenberg, California and Polk streets..
.....Flavoring Extracts, Fruits, Syrups, and Juices, Mince Meat,
.....Jellied Fruits, Jellies, Jams, Preserves, and Marmalade
- 23 Biehs, G., 628 Market street.....
.....Fancy Baskets, Rattan Baskets, and Hampers, Etc.
- 36 Blinn, Mrs. Nellie H., 1527 Post street.....Keramic Art

Class.

- 40 Blumenberg, S. P., 221 Davis street.....
.....Dr. Gordon's Chocolate Emulsion
- 40 Boardman, Kenne & Co., 8 Sutter street.....
.....Perfumery and Toilet Articles
- 8-24 Bowers Rubber Co., 42 Sacramento street.....
.....Hose Reels, Rubber and Cotton Hose, Belting, Mats, Etc.
- 25 Braun, M., 1123 Filbert street, Oakland.....Curled Hair
- 30-32 Breen, Miss Katie, 30 Kearny street.....
.....Optical Goods and Jewelry
- 14 Britton & Rey, 525 Commercial street....Metal Advertising Signs
- 26-27 Brown Bros. & Co., Agents Oregon City Woolen Mills, 121
Sansome street.....
Cassimeres, Blankets, Flannels, Clothing of Own Cassimeres
- 19 Bruenn, A., 228 Post street.....Pianos
- 33 Brunt, W. N., 535 Clay street.....
..Fine Printing, Badges, Regalia, Society Cards, Copper
Plate and Embossed Work.
- 23 Buchanan Bros., 609 Sacramento street.Brushes and Woodenware
- 40 Burd, L. H., 211 Larkin street.....Soap
- 18 Burr, C. H., 667 Mission street.....Weather Strips
- 34 Bush, Mrs. P. J., 6 Sutter street.....Lace and Fancy Work
- 39 Bushnell, Fred H., 1410 Market street.....Photography
- 3 Cahill, J. L., 107 Sixth street.....Advertising Machine (Clock)
- 18 California Art Glass Bending & Cutting Works, 103 Mission
street
Art Glass, Embossed, Cut, Bent, Beveled and Crystallized;
Glass Signs and Mirrors.
- 39 California Camera Club, 605 Market street.....Photography
- 42 California Condensed Juice Co., 114 Cumberland street.....
.....Condensed Grape Juice
- 25-26 California Cotton Mills, East Oakland.....
Quilts, Comforters, Duck, Drill, Toweling, Cotton Rope,
Corded Twine and Bats.
- 40 California Fire Works Co., 219 Front street.....Fireworks
- 45 California Fish Commission, Flood Building..Fresh Water Fish
- 41 California Italian Paste Co., 307 Battery street.....
.....Macaroni, Vermicelli, Etc.
- 11 California Stump Puller Co., 82 Zoe street.....
.....Stump Puller, Snatch Block, and Draft Hook
- 17 California Travertine Company, 26 Eighth street.....
.....Marble and Onyx
- 1 California Tule Anti-Caloric Co., 401 California street.....
.....Plaster and Steam Pipe Covering

Class.

- 12 California Wire Cloth Co., 8 Pine street.....
.....Wire Cloth, Fence Netting, Screens, Sieves, and Mats
- 5-25 Call, S. F.....Stereotype Plates, Paper and Matrices
- 47 Carlisle, A., 417 Montgomery street.....Pigeon Cole
- 26 Carter, J. J., 6 Sutter street.....
.....Silk Thread and Art Embroidery Silk
- 13 Carrick, Martin, 1324 Fell street.....Galvanized Iron Lath
- 31 Chicago Artificial Limb Co., 26 Geary street....Artificial Limbs
- 41 Chino Valley Beet Sugar Co., Chino.....Beet Sugar
- 11 Chittenden, G. E., Niles.....Ladders
- 5-25 Chronicle, S. F.....Stereotype Plates, Paper and Matrices
- 12 Clark, Truman S. Co., 645 Mission street.....
.....Iron Bedsteads and Spiral Spring Mattresses
- 34 Clarke, Mrs. William, 1013 East Twenty-third street, Oakland
.....Farmer's Wreath
- 24-40 Cook, Fred R., 208 Mission street.....
.....Leather Belting, Lacing and Belt Grease
- 11-24 Cook, H. N. Belting Co., 317 Mission street.....
.....Leather Belting, Rawhide Goods and Drapers
- 42 Coope & Pippy, 623 Market street.....Wines
- 33 Crocker, H. S. Co., 215 Bush street.....
Blank Book Manufacturing, Printing, Lithographing, Copper
Engraving, Stamping, and Embossing.
- 3 Cumming, Geo. & Co., 18 Fell street.....
.....Portable Forges and Hand Blowers
- 23 Cyclops Iron Works, 115 Beale street....Refrigerating Machinery
- 46 Dairymen's Union, 113 Davis street....Eggs, Butter and Cheese
- 16 Dallamore, Geo. C., 414 Devisadero street.....
.....Titus Sewer Gas Trap, Tide and Flushing Gate
- 9 Davis, Aaron, 31 South Park.....Ship Model
- 24 Degen, L. P., 105 Mission street.....Leather Belting and Lacing
- 34 De Graff, Mrs., 3374 Twenty-first street.....Baby Dress
- 38 Denman School.....Drawing, and Other Works of Scholars
- 6 Denniston, E. G., 655 Mission street..Amalgamated Mining Plates
- 28 De Pons, Mrs. W. W., Oakland.....Paper Flowers and Goods
- 8-12 Dyer Bros., 117 Beale street.....
Art, Architectural, and Structural Iron Work, Fire Escapes
and Fittings.
- 27 Eagleson & Co., 750 Market street.....Shirts
- 47 Edison Light & Power Co., 229 Stevenson street.....
.....General Electrical Display
- 33 Educational Map Manufacturing Co., Parrott Building....Maps
- 25 Eisner, D., 331 Kearny street.....Dressed Seal

Class.

- 17 Elliott & Farrell, 328 Twenty-seventh street.....Art Brick
 6 Ellis Concentrator Co., 318 Pine street.....Concentrator
 2 Evans, C. H. & Co., 110 Beale street.....Steam and Other Pumps
 33 Faust, H. W., 208 Post street..Maps and Guides of San Francisco
 19 Fay, Robert, 1729 Mission street.....Pianos
 40 Fishbeck & Gloomt, 307 Sacramento street.....Soaps
 27 Fisher, Chas. & Co., 112 Sutter street.....Leggins
 28 Flynn & Co., 14 McAllister street.....Dress-Making School
 38 Foucher, E., Donohoe Building.....Tapestry Painting
 39 Fowzer, J., 1146 Market street.....Photographs
 1 Foye, Geo. H. & Co.....Alarm for Steam Boilers
 39 Frauenholz, Miss E., 135 Chestnut street.....Photography
 29 Fraser, C. R., 439 Fell street.....Electrical Appliances
 43 Fredericksburg Bottling Company, 1510 Ellis street.....Beer
 23 Fulda Bros., 30 Spear street.....
Tanks and Tightening Device for Same
 18-40 Fuller, W. P. & Co., 21 Front street.....
Paints, Oils, Mirrors, and White Lead
 6 Fulton, Engineering and Shipbuilding Works, 213 First street,
 and Rix Compressed Air Machinery Co., 11 First street,
Compressed Air Machinery
 17 Furlong, Thomas N., 1219 Market street.....
Cement Laundry Trays and Butchers' Tanks
 14 Gay, Charles, 785 Market street.....
Aluminum Heels for Ladies' Shoes
 16 Gillespie, W. W., 134 Ellis street.....Welsbach Gas Burners
 34-36 Gilmore, Mrs. J. H., 2032 Bush street.....
Keramic Art and Fancy Work
 24 Goldberg & Tweedie, 1524 Market street.....
Shoes and Manufacturing Same
 26 Golden Gate Woolen Manufacturing Co., 535 Market street,
 Plankets, Buggy, and Carriage Robes, Flannels, Cassimeres,
 Cloths, and Tweeds.
 38 Golden State Amateur Press Association, 1423A Bush street,
Drawings and Amateur Papers
 6 Golden State and Miners' Iron Works, 237 First street.....
Gasoline, Prospecting, and Sinking Pump
 47 Goldstein, M., 1½ Polk street.....Monopresses
 13 Graham, Jas., 35 Second street.....Stoves and Ranges
 37 Grandmougin, Paul C., Donohoe Building.....
Sculpture and Modeling in Clay
 5 Gravity Can Labeling Machine Co., 105 Mission street.....
Gravity Can Labeling Machine

Class.

- 47 Greefken, J. H., Russ House.....
Optical Illusions and Transformations
 29 Greenbaum, A., 216 Minna street.....Electrical Engraving
 40 Greenbaum & Co., 128 Post street.....Perfumery
 13 Gress, K. W., 9½ Eighth street.....Long-Handled Dust Pans
 29-40 Grothwell, A., 26 Montgomery street.....
Pile Covering, Paint, Roofing, and Insulating Compound
 42 Gundlach-Bundschu Wine Co., Market and Second streets..
Wines and Brandies
 1 Hadwen-Swain Manufacturing Co., 215 Spear street..Gas Engines
 38 Haigo, W. M., 403 Geary street.....Japanese Artist
 6 Hallidie, A. S., 8 Pine street.....Model Wire Ropeway
 11 Hanford Agricultural Works, Hanford..Rotary and Orchard Plow
 12 Harmon, W. F., 929 Mission street.....Spiral Bed Springs
 42 Harris, Kingston & Co., 123 Eddy street.....
Champagne by Artificial Process
 27 Hartley, Mrs. W. H., 540 Connecticut street.....Neckwear
 18 Hatch, Thomas, 1020 Howard street.....
Woods, Veneering, and Instructions Therein
 29-38 Heald's Business College, 24 Post street.....
Electrical Apparatus, Penmanship, and Art Drawings
 38 Hecht, Jos. A., 927 Market street.....System of Shorthand
 27-32-45 Heininger, C. P. & Co., 526 Market street.....
Canes, Woods, and Shell Goods
 2-4-6-7-12 Hendy, Joshua Machine Works, 28 Fremont street....
 Water Motors, Wood Working Machinery, Mining Ma-
 chinery, Laundry Machinery, Iron Castings, Columns, Etc.
 8 Henriksen, B. E., 22½ Geary street.....Adjustable Hose Bridge
 27 Herrmann, C. & Co., 328 Kearny street.....Fine Hats and Caps
 40 Herzog, G. A., 522 Shotwell street.....
Process of Graining From Natural Woods
 34 Hewitt, Mrs. S. E., 1827 Polk street..Paper Work and Flowers
 1 Hicks, J. L., 667 Mission street.....Gas Engines
 14 Hobrie, J., 1200 Franklin street.....Bread Cutter
 40 Holje, M., 106 Pine street.....Glue
 18 Hooper, C. A. & Co., California and Front streets.....
Polished Redwood Buhl
 19 Hornung, C. C., 216 Post street.....Pianos, Touch Regulator
 40 Horstmann, John, 667 Bryant street.....Lavarine
 11 Howe, J. P., Santa Cruz.....Model of Harrow
 40 Hunter, C. M., 927 Market street.....Absorene Cleaning Compound
 Huntington, F. A., 141 First street.....Quartz Mills, Etc.

Class.

- 17 Inyo Marble Co., Phelan Building.....Marble
 42 Italian-Swiss Agricultural Colony, 109 Battery street....Wines
 47 I. X. L. Tamale Co., 208 McAllister street....I. X. L. Tamales
 17 Jackson, P. H. & Co., 228 First street.....
 Sidewalk Lights and Cement Flooring
 30 Jacobs, Dr. E., 407 Devisadero street.....
 Optical Goods and Lense Grinding
 29 Jones & Kennett, The Chutes.....Electric Photographing
 29 Jones, Dr. Philip Mills, 803 Sutter street.....
 Fluoroscope, Exemplifying X-Ray
 3-12 Judson Manufacturing Co., Howard and Beale streets....
 Tack and Nail Machinery, Tacks and Nails, Iron Column,
 Shafting and Bridge Material, Bar and Structural
 Iron and Steel, Miniature Bridge.
 22 Jungblut, August & Co., 10 Golden Gate avenue.....
 Billiard Tables, Etc.
 17 Jurgewitz, Fred, 1132 East Twelfth street, Oakland.....
 Plaster Decorations and Ornaments
 30-32 Keeler, F. T., 419 Kearny street.....
 Optical Goods and Imitation Stone Jewelry
 28 Keith, Mme. Alma E., 308 Market street.....Millinery
 34 Kendrick, Miss, 3346 Clay street.....Crazy Quilt
 16 Kirby, C. F., Jr., 1625 Mission street.Williams' Sanitary Bathtubs
 34 Klock, Mrs. B. F., 317 Golden Gate avenue....Farmers' Wreath
 3 Kneass, George W., 718 Third street.....
 Naphtha Launch, Skiff and Rowboat
 47 Kollmann, M., 933 Market street.....Automatic Coin Machines
 25 Korper, J., 1026 Market street.....Fur Garments
 19 Kreling, F. W., & Sons, 319 Guerrero street.....Banjos
 1-2-11 Krogh Manufacturing Co., 51 Beale street.....
 Compound Engine, Pumps, Wine Press, and Crusher
 44 Kuerzel, R., 871 Broadway street, Oakland.....
 Cigars, and Manufacturing Same
 24 Kullman, Salz & Co., 106 Battery street.....
 Leather, and Harness Made of Same
 40 Lambert, Wm., 14 Natoma street.....H. & L. Axle Grease
 30 Lamont, G. E., 126 Kearny street.....Scientific Glass Blowing
 16 Langrehr, Henry C., Phelan Building.....
 Patent Effervescent Beer Bottle
 41 Laumeister, C. S., 203 Mission street...Pettijohn's Breakfast Gem
 28 Lawrence, Mrs. E. D., 1231 Market street..Dress Cutting System
 28 Lawrence, Mrs. L. M.....Dress Shields

Class.

- 30 Lietz, The A. Co., 422 Sacramento street....Scientific Instruments
 24 Lind, John, 238 Post street.....Boots and Shoes
 46 Loeffler, John, 422 Fifth street.....
 Pickles, Preserves, Marmalade, Jellies, Sauces, Catsups,
 Mustard, Olives, Vinegar, and Mince Meat.
 12 Los Angeles Iron & Steel Co., Los Angeles, W. H. M. Small-
 man, Agent, 221 Front street.....
 Corrugated, Sheet, and Galvanized Iron
 27 Lundstrom, K. A., 144 Geary street.....
 Hats in Process of Manufacture
 40 Lytton Springs Sanitarium, 218 McAllister street.....
 Geyser Soda and California Seltzer
 47 Manufacturers' and Producers' Association of California.,
 Mills Building.....Literature and Booth
 39 Marceau, Theodore C., 826 Market street.....Photographs
 40 Marchand, Mme. L., 28 Geary street.....
 Toilet Articles, Hand and Complexion Preparations
 40 Marchand, A., 2541 Folsom street.....Gold Paint
 18-28 Marsh, Mrs. J. A., 21 Eleventh street.....
 Inlaid Table and Carved Picture
 47 Martin, W. H., 1045 Union street, Oakland.....
 Cider, Root Beer, Ginger Ale, Lemonade, and Whips
 21 Marwedel, E. H., 712 Mission street.....
 Window Shades and Poles, and Brass Bedsteads
 25 Marx, F. & Co., 957 Market street.....Fine Furs and Garments
 38 Matsushita, Koasai S., 917 Market street.....Japanese Artist
 24 Metten & Gebhardt, San Bruno Road.....Leather
 6 Midas Gold Saving Machinery Co., 114 First street.....
 Gold King Amalgamator
 45 Mill Valley Mineral Spring Co., 916 Market street.....
 Mud Bricks for Bathing Purposes
 13 Model Window Hinge Co., Mills Building.....
 Model Window Hinge
 34 Moore, Mrs. H. S., 2015 Fifteenth street.....Crazy Quilt
 34 Muller, Mrs. J. M., 1102 Page street.....Kuit Curtain
 47 Myssell, Rollins Co., 22 Clay street.....Fair Daily
 43 National Brewing Co., Fulton and Webster streets.....Beer
 41 Neale, Mrs. E. P., San Diego.....Hygienic Coffee
 25 Neville & Co., California and Davis streets.....
 Marshall's Salmon Twine Gill Nets
 40 Newton Bros., 139 First street.....Chewing Gum
 15 Nordlund, L. B., 525 Sixth street.....
 Cashamatic (Automatic Change-Making Machine and
 Register).

Class.

- 20 Novelty Co., The, Larkspur.....Baby Jumper
5-11 O'Brien, M., 509 Mission street.....
.....Flour Mill Machinery, Pea Sheller, Elevator Boots
20 O'Brien & Sons, Polk street and Golden Gate avenue..Vehicles
38 O'Hara & Livermore, 704 Sutter street.....
.....Applied Art, Burnt Leather Work, Etc.
26-27 Oregon City Woolen Mills, Brown Bros. & Co., Agents, 121
Sansome street....Cassimeres, Blankets, and Flannels, Etc.
41 Our Mothers' Milling Co., 116 California street.....
.....Our Mothers' Mush and Hot Cake Meal
12 Pacific Axle Co., Napa and Maryland streets.....Steel Axles
45 Pacific Coast Borax Co., 101 Sansome street.....Borax
41 Pacific Coast Syrup Co., 713 Sansome street.....
.....Maple Syrup and Tea Garden Drips
29 Pacific Electrical Works, 154 First street....Electrical Appliances
6 Pacific Mining Machinery Co., Los Angeles.....Amalgamator
14 Pacific Saw Manufacturing Co., 17 Fremont street.....
.....Saws, Knives, and General Edged Tools
28 Palmer & Godshall, 36½ Geary street....Ideal Shoe-Tie Clasp
40 Paraffine Paint Co., 116 Battery street.....
.....P. & B. Roofing, Paint, Pile Covering, Etc.
12 Pennington, Geo. W. & Sons, 218 Folsom street.....
.....Forged Steel Shoes, Dies, Crank Shafts, Tool Steel Bars
36 Perley & Culp, 215 Post street.....Ceramic Art
34 Peters, Mrs. E., 118 Shotwell street.....Needle Work
40 Peterson, H. P., 1204 Vermont street.....Toilet Soap
34 Pettee, Mrs. Kate, 2505 Leavenworth street.....
.....Wax Flowers (Victoria Regina)
26 Pfister, J. J., Knitting Co., 103 Post street.....
Knit Bathing Suits, Sweaters, Underwear, Cotton, Wool
and Silk, Bicycle Suits and Golf Hose.
36 Phillip, Miss H. D., 704 Sutter street.....Ceramic Art
45 Pittsburg Coal Co., Charles R. Allen, Agent, 144 Steuart
street.....Coal
46 Pleasanton Hop Co., 100 Front street.....Hops
18-21-38 Plum, C. M. & Co., Ninth and Market streets.....
.....Mantels, Furniture, Wood Carvings
6 Prospective Mining & Machinery Co., 127 First street.....
.....Tremain Steam Pump
6 Radovich, L., Commercial Hotel.....Hand Rock-Breaker
16 Rapid Safety Filter Co., 1209 Market street.....Water Filters
18 Reed & Cleve, 36 Main street.....Patterns and Models
34 Ricker, Mrs. Caroline D., 608 O'Farrell street.....Crazy Quilt

Class.

- 40 Rieger, Paul & Co., 511 Front street.....
.....Perfumery, Flavoring Extracts, and Essential Oils
1-6-12 Risdon Iron Works, Howard and Beale streets.....
Heine Tubular Boiler, Mining Machinery, Iron Pulleys,
Steel Shoes and Dies.
6 Rix Compressed Air Machinery Co., 11 First street; and Ful-
ton Engineering and Shipbuilding Works, 213 First street,
.....Compressed Air Machinery
36 Roberts, Miss, 570 Eleventh street, Oakland.....Ceramic Art
33 Robertson, A. M., 126 Post street.....
Fine Printing, Engraving, Stamping, Illuminating, and
Embossing.
40 Robinson Chemical Co., 1169 Howard street...Harness Dressing
33 Roesch, Louis Co., 320 Sansome street.....
.....Label, Poster, and Job Printing
42 Rossi, P. C., 318 Montgomery avenue.....Vermouth
38 Ryder, Miss E. S.....Landscape Gardening Drawings
30 Sala, Joseph C., 429 Montgomery street...Scientific Instruments
34 Sanders, Miss B., 1524 Eddy street....Lace and Needle Work
40 Santa Barbara Mineral Water Co., 29 Market street.....
.....Bythinia Water
46 Saratoga Packing Co., 313 Davis street.....Prunes
16 Schuster Bros., 360 Sutter street....The Atchison Beer Governor
13 Shannon, Edwin, 667 Mission street..Perfection Window Screens
24 Siebe Shoe Co., 25 Jessie street.....Ladies' Shoes
14 Simmons, H. S., Santa Monica.....Rubber Stamps
34 Simpson, Mrs. M. J., 628 Eighteenth street.....Needle Work
29 Smith, C. A., 111½ Polk street..Model of Electric Flying Machine
36 Smith, Miss L. N., Alameda.....Ceramic Art
32 Sonnenfeld, Sam, 331 Kearny street.....Lapidary Work
11-21 Souney Bros., Sacramento.....
Revolving Invalid Bed, Double Cylinder Tooth for Thresher
41 Sparrowe, Charles G., Van Ness avenue and Geary street....
.....Candy, Ice Cream, Sodawater, and Popcorn
41-46 Sperry Flour Co., 204 Front street.....
.....Germea, Wheat in Sheaf
41 Spohn, John H., 318 Battery street.....
.....Aunt Jemima's Pancake Flour
41 Sresovich, L. G. & Co., 505 Sansome street.....
.....Shredded, Desiccated, and Stripped Coconut
22 St. Germain Billiard Co., 55 First street.....
.....Billiard Tables and Appurtenances

Class.

- 38 St. Hubert, Mrs. Ch. de, 822 Ellis street.....Painting on Velvet
 42 St. Hubert Tonic Port Co., 224 Bush street.....Tonic Port
 42 St. Hubert Vineyard Co., 224 Bush street....Wines and Brandies
 41 Standard Biscuit Co., 813 Folsom street.....
 Crackers, Cakes, and Fancy Biscuits
 40 Standard Soap Co., 525 Market street.....
 Soaps, Candles, Glycerine, and Perfumery
 38 Staples, Mrs. L. D., 2120 Mason street.....Tapestry Painting
 28 Steele & Bergman, Mmes., St. Ann's Building.....
 Dress Cutting System
 13 Steiger & Kerr, 350 Main street.....
 Stoves, Ranges, and Adjustable Grates
 34-36 Stephens, Miss Josie, Alameda.....Quilt, and Ceramic Art
 17 Stockton Art Pottery Co., Stockton.....Art Pottery
 41 Stockton Milling Co., 112 California street.....Crown Flour
 17 Strahle, Jacob, 331 Montgomery street.....Slate
 16 Tait, A. J., 1621 Eighth street, Oakland.....Water Filter
 23 Taylor, J. E. & Sons, Fruitvale.....Fancy and Souvenir Brooms
 34 Terpening, Ruth L., 208 Valencia street.....Sofa Pillow
 11 Thurman, R. O., 440½ Sixth street.....Model of Wire Stretcher
 40-41 Tillmann & Bendel, 317 Battery street.....
 Flavoring Extracts, Trophy Baking Powder, Spices and Coffee
 46 Tillmann Canning Co., Tillmann & Bendel, Proprietors, 317
 Battery street.....
 Jellies, Jams, Preserves, Canned Fruits, Marmalade,
 Tomato Catsup, Etc.
 9 Towle, G. M., 325 Mission street.....Model Yacht
 25 Tubbs Cordage Co., 607 Front street....Rope, Cordage, and Twine
 34 Tucker, Mrs. J. C., 1271 Jackson street, Oakland.....
 Raised Leather Book Cover
 12 Tuckey & Harris, 126 Kearny street....Key Retainer and Locker
 40 Tuscan Springs, W. J. O'Neil, Agent, 132 Sixth street.....
 Mineral Water and Salts
 13 U. & I. Co., 1143 Market street.....Telescope Coffee Pot
 41 Union Fish Co., 24 California street.....Codfish
 1-6-9-47 Union Works, 222 Market street.....
 Models of Union Iron Works and Ships; Compound En-
 gine and Dynamo, Baby Hoist, Mining Machinery.
 44 University of California, Berkeley.....Tobacco
 24 Utschig, John, 326 Bush street.....Boots and Shoes
 29-38 Van der Naillen's School of Engineering, 723 Market street,
 Miniature Electric Railways, Models, Scientific Outfit,
 Penmanship, Topographical and Constructive Drawings..

Class.

- 1-6 Van Winkle, I. S. & Co., 413 Market street.....
 Gas and Gasoline Engines, and Mining Machinery
 16 Vapor Bath Cabinet Co., 18 Post street.....Vapor Bath Cabinets
 40 Veronica Mineral Water Co., 431 Turk street....Mineral Water
 13 Verrue Instantaneous Water Heater Co., 662 Bryant street...
 Instantaneous Water Heaters
 34 Vestey, Mrs. E., 440 Third street.....
 Sea Mosses, Botanical Specimens and Lace
 34 Vetterli, Mrs. A. M., 615 Pine street.....Knit Spread
 18 Voss, A., 2244 Howard street.....
 Miniature Locomotive Made of Wood
 34 Walker, Mrs. A., 408A McAllister street..Quilt and Fancy Work
 16 Walker, Frank, 637 Golden Gate avenue.....Sewer Flusher
 40 Waller Bros., 33 Grant avenue.....
 Soaps, Perfumes and Toilet Preparations
 17 Wanner & Maddox, 408 Parrott Building.....
 Fire-Proof Roofing Partitions, Etc.
 12 Washburn & Moen Manufacturing Co., 8 Pine street.....
 Wire Rope, Cable, Barbed Wire, and Staples, Wire Nails,
 Ornaments, Wire Belting, Fencing, Etc.
 39 Watts, W. L., State Mining Bureau, 24 Fourth street.....
 Cylindographs, and Other Photographic Studies
 3-11 Weichart, John, 143 Beale street.....
 Model of Hay Cutter, Planing Mill Supplies, Assorted
 Tools, and Dies.
 40 Wellington, B. F., 425 Washington street.....Egg Food
 41 Western Meat Co., Sixth and Townsend streets.....
 Packing House Products
 23 Western Basket Manufacturing Co., 662 Bryant street.....
 Fruit and Laundry Baskets
 5-42-46 Wetmore-Bowen Co., 140 Montgomery street.....
 Wines, Olive Oil and Bottle Washer
 2-10 Whyte & De Rome, 126 Main street.....
 Double Multiple Expansion Steam Turbine, Donahoo
 Sewer Flusher.
 34 Wilbur, Mrs. M. C., Bacon and University streets, Berkeley..Rug
 25 Willamette Pulp & Paper Co., 722 Montgomery street.....Paper
 18 Williams Bros. & Reynolds, G. E., Oakland.....
 Grill Work and Bubble Blowers
 40 Willson Bros., 661 Market street.....
 Wall Paper and Cleaning Compound
 34 Winship, Mrs. H. S., 2217 Howard street.....
 Silk Quilt and Fancy Work

Class.

- 23 Woerner, David, Fourteenth and Harrison streets....Cooperage
 34 Wood, Mrs. T. H., 902 Van Ness avenue.....Fine Lace
 6 Woodbury, George E., 143 First street.....Concentrator
 20 Yosemite Cycle Works, 112 Golden Gate avenue.....
 Bicycles and Tandems, Parts and Fittings, Showing
 Workmanship.
 31 Young, Dr. H. G., 1841 Page street.....Display of Dental Work
 23 Zan Bros. & Co., 310 Davis street.....Brooms and Whisks

LIST OF JURORS.

Class 1-5.—S. G. Hindes, John Richards, H. P. Christie, Samuel Dinsmore, G. H. Fairchild.

Class 6.—Col. J. E. Doolittle, Matthew Arnold, A. B. Davis, John Ernest Strachan.

Class 7-11.—Chas. L. Barrett, T. C. Gainey, B. F. Hobart, G. H. Moore, C. J. Kaighin.

Class 12 and 14-17.—J. H. Mallett, Jr., S. N. Grubb, Professor L. A. Buchanan.

Class 13.—L. Ruth, W. W. De Lano, W. R. Myers.

Class 18-23.—A. Harold Kayton, Geo. F. Day, Wm. D. Noyes, H. F. Marsh, W. T. Thomson.

Class 24-28.—Gilbert Pringle, J. G. Liebold, W. J. Fitzmaurice, Daniel McLeod, Robert McDonough.

Class 29-33.—Carl Uhlig, W. R. Delzelle, Prof. C. L. Cory, Chas. K. Rosenberg, Allan St. J. Bowie, J. C. H. Stut.

Class 34.—Miss Florence Durden, Mrs. H. E. Faure, Mrs. Henry Toomy, Mrs. Dr. Martin Regensburger, Mrs. N. Scheeline.

Class 35-38.—James D. Phelan, Richard Bush, Sidney M. Smith, C. H. Crowell, Dr. Benjamin Marshall.

Class 39.—Geo. W. Reed, Clement Watkins, Oscar Kunath.

Class 40-41 and 44-46.—Dr. C. A. Kern, Arthur F. Price, T. H. Dowling, Henry S. Durden, J. B. Stevens, F. M. Baumgarten.

Class 42-43.—J. J. Chappell, Charles Wilmot, F. T. Bioletti, A. P. Hayne.

CATALOGUE

OF THE

ART DEPARTMENT.

OIL PAINTINGS.

No.	Title.	Artist.
1.	Interior of St. Mark's, Venice.....	John M. Gamble
2.	Spring, Berkeley.....	John M. Gamble
3.	In the Woods.....	John M. Gamble
4.	Venetian Boats.....	John M. Gamble
5.	Evening on the Ranch.....	John M. Gamble
6.	The Milk Maid.....	John M. Gamble
7.	A Sunny Glade.....	John M. Gamble
8.	Afternoon in the Redwoods.....	John M. Gamble
9.	Home of the Gray Squirrel.....	John M. Gamble
10.	Portrait in Red.....	John M. Gamble
11.	Moonlight, Amsterdam.....	John M. Gamble
12.	A Pastoral.....	L. P. Latimer
13.	Sunset.....	L. P. Latimer
14.	The Brook.....	L. P. Latimer
15.	A Summer Morning.....	L. P. Latimer
16.	Morning in the Redwoods.....	L. P. Latimer
17.	Autumn in the Berkshire Hills.....	H. R. Bloomer
18.	Valley of Chalfort, England.....	H. R. Bloomer
19.	A Foreground Study.....	H. R. Bloomer
20.	Outskirts of Barbizon, France.....	H. R. Bloomer
21.	In the Lowlands of Scotland.....	H. R. Bloomer
22.	On the Devon Coast, England.....	H. R. Bloomer
23.	Dorset Hills, England.....	H. R. Bloomer
24.	Old Barn, England.....	H. R. Bloomer
25.	In a Normandy Orchard.....	H. R. Bloomer
26.	Valley of the Colne, England.....	H. R. Bloomer
27.	South Coast, England.....	H. R. Bloomer
28.	After the Rain in the Scottish Hills.....	H. R. Bloomer
29.	Mt. Shasta—Morning.....	H. R. Bloomer
30.	Loch Acray—Scotland.....	H. R. Bloomer

No.	Title.	Artist.
31.	Moret, France.....	Eva Withrow
32.	Almond Blossoms.....	Eva Withrow
33.	Iris	Eva Withrow
34.	Pansies	Eva Withrow
35.	Violets	Eva Withrow
36.	Quince Blossoms.....	Eva Withrow
37.	Portrait, Sketch of J. Frank Currier.....	Eva Withrow
38.	Ilka	Eva Withrow
39.	Violets	Eva Withrow
40.	Eschscholtzias	Eva Withrow
41.	A German, Home Garden.....	Eva Withrow
42.	Eschscholtzias	Eva Withrow
43.	Portrait	Eva Withrow
Owned by Mrs. H. K. Withrow.		
44.	Eschscholtzias	Eva Withrow
45.	Life—An Allegory	Eva Withrow
46.	The Saz Player.....	Eva Withrow
47.	Whistling Boy.....	J. Frank Currier
Owned by Eva Withrow.		
48.	Still Life.....	J. Frank Currier
Owned by Eva Withrow.		
49.	Birch Trees.....	J. Frank Currier
Owned by Eva Withrow.		
50.	The Confession.....	Ed. Blume
51.	Un coin de cuisine a Montmartre.....	Jules Pages
52.	The Discovery of the Bay of San Francisco, by Portola.....	E. M. Pissis
55.	The Coming Shower.....	Annie Harmon
56.	A Group of Redwoods.....	Annie Harmon
57.	Landscape	Annie Harmon
58.	Violets	Sarah E. Bender
59.	Muir Glacier	Thomas Hill
60.	Grand Canyon of the Colorado.....	Thomas Hill
61.	Near Larkspur.....	Alice B. Chittenden
62.	Sunlit Roses.....	Alice B. Chittenden
63.	Peonies	Alice B. Chittenden
64.	The Old Garden.....	Alice B. Chittenden
65.	In the Hills.....	Alice B. Chittenden
66.	Mandolin and Roses.....	G. Cadenasso
67.	Approaching Storm.....	G. Cadenasso
68.	Portrait of G. Piazzoni.....	G. Cadenasso
69.	Evening in Alameda.....	G. Cadenasso
70.	Study, Portrait of L. P. Latimer.....	G. Cadenasso
Owned by L. P. Latimer.		

No.	Title.	Artist.
71.	Mystic Morning.....	G. Cadenasso
72.	Piercing the Vail (coast of Monterey).....	M. Straus
73.	Autumn, Silver Birch Trees, Minn.....	M. Straus
74.	A Juvenile Raid.....	M. Straus
75.	Eastern Autumn, Wisconsin.....	M. Straus
76.	Raspberries	Mrs. A. R. Hahn
77.	A Fairy Tale.....	Helen Hyde
78.	Lydia	Helen Hyde
79.	Still Life.....	Wm. Hubacek
80.	Still Life.....	Wm. Hubacek
81.	Early Summer Day.....	Wm. Hubacek
82.	Marchal Niel Roses.....	Wm. Hubacek
84.	The Arno, at Florence.....	C. A. Rogers
85.	Near Strassburg.....	C. A. Rogers
86.	Near my Studio (Rome).....	C. A. Rogers
87.	Cove at Point Lobos.....	C. A. Rogers
88.	Portrait of Wm. Hubacek, by himself.....	Wm. Hubacek
89.	Roses	Sarah E. Bender
90.	Morning Glories.....	Alice Chandler
91.	Patrick Henry's Treason.....	Alice Chandler
92.	Morning, Redwood Canyon.....	James McCrosson
93.	Afternoon Fog, Redwood Canyon.....	James McCrosson
94.	Mill Valley Dam.....	James McCrosson
95.	May Day, Mill Valley.....	James McCrosson
96.	Twin Redwoods, Redwood Canyon.....	James McCrosson
97.	Mt. Tamalpais.....	James McCrosson
98.	Sunlight and Shadow, Mill Valley.....	James McCrosson
99.	Mt. Tamalpais.....	A. C. Snow
Owned by Roger Magee.		
100.	Scrub Oaks.....	A. C. Snow
101.	On the Moselle (Germany).....	C. von Perbandt
Owned by H. Zellerbach.		
102.	Old Farm House (Germany).....	C. von Perbandt
Owned by H. Zellerbach.		
103.	Scene in Brittany.....	John A. Stanton
104.	Fishing Village in Brittany, France.....	John A. Stanton
105.	Evening, Brittany.....	John A. Stanton
106.	Fisherwoman, Brittany.....	John A. Stanton
107.	Rapello, Italy.....	Chris Jorgensen
Owned by Ghiradelli Co.		
108.	Windmill, Brittany.....	Mollie G. Hutchinson
109.	Fisherman, Brittany.....	Mollie G. Hutchinson
110.	Frau, Bloc (Dutch Peasant Woman).....	Mollie G. Hutchinson

No.	Title.	Artist.
111.	Portrait of a Lady in Black.....	Ernest C. Peixotto
112.	Portrait of a Lady in Yellow.....	Ernest C. Peixotto
113.	Sketch of Mr. Denslow, Artist.....	Carl Dahlgren
114.	Esrom Lake.....	Carl Dahlgren
	Owned by Mr. Christensen.	
115.	Coast of Denmark.....	Carl Dahlgren
	Owned by Mr. J. Raven.	
116.	Creek Scene from Bartlett Springs.....	Carl Dahlgren
117.	Kay-Kah-wy (The Boss).....	Grace Hudson
	Owned by Charles S. Wheeler.	
118.	Grapes	Mrs. A. R. Hahn
119.	Fruit	Mrs. A. R. Hahn
120.	London Horse Show.....	Wm. Hahn
121.	Pastoral Scene	Wm. Hahn
122.	Approaching Storm.....	H. W. Arthur Nahl
123.	Study, Head.....	Charles Nahl
124.	The Fandango.....	Charles Nahl
125.	Street Scene in Dresden.....	H. W. Arthur Nahl
126.	Eneas and Venus.....	J. Augustus Nahl
127.	Beware	Charles Nahl
128.	Democritus	Antoine Coypel
129.	Sketch, Battle of Winchester.....	Charles Nahl
	[Nos. 122 to 129, inclusive, are owned by the Nahl Collection.]	
130.	An Interesting Story.....	C. Chapel Judson
131.	Landscape	C. Chapel Judson
132.	The Last Rays.....	C. Chapel Judson
133.	A Misty Spring Morning.....	C. Chapel Judson
134.	Still Life.....	Isabel G. Hunter
135.	Still Life.....	Isabel G. Hunter
136.	Hay Stack St. Briac, Brittany.....	Mollie G. Hutchinson
137.	The Astrologer	Nellie Fontaine Binckley
138.	Carmen	Nellie Fontaine Binckley
139.	The Model's Diversion	A. Joullin
140.	A Study.....	A. Joullin
141.	Gray Day.....	A. Joullin
142.	Study of Lupin.....	A. Joullin
143.	The Shore at Monterey.....	R. D. Yelland
144.	Where Sluggish Tides Creep in.....	R. D. Yelland
145.	Near Arkville, N. Y.....	R. D. Yelland
146.	Monterey Sands.....	R. D. Yelland
147.	Ebb Tide, Point Pinos, Monterey.....	R. D. Yelland

No.	Title.	Artist.
148.	Indian Camp, Mendocino County.....	Henry Raschen and Carl von Perbandt
149.	Portrait	Henry Raschen
	Owned by I. Zellerbach.	
150.	Old Warrior.....	Henry Raschen
151.	A Summer Day.....	Henry Raschen
152.	Portrait	Henry Raschen
153.	Portrait of Capt. B.....	Henry Raschen
154.	Jack Rabbit.....	Henry Raschen
155.	Corinne	Henry Raschen
156.	Study of a Head.....	Henry Raschen
157.	Study, Against the Light.....	Henry Raschen
158.	Fifty Years Ago.....	H. R. Dietz
159.	Marine	H. R. Dietz
160.	On the Edge of the Forest.....	Z. W. Van Borselen
	Owned by E. A. Denicke.	
161.	Portrait of Mr. D.....	J. A. McQuarrie
162.	Apples	Mary E. Bruenn
163.	Cherries from Temescal.....	Mary E. Bruenn
164.	California Peaches.....	Mary E. Bruenn
165.	Twilight on the Alameda Marshes.....	R. D. Yelland
166.	Oranges	Lillie L. Freeman
167.	Berkeley	Lillie L. Freeman
168.	Portrait	Alice Leveque
169.	Chrysanthemums	Alice Leveque
170.	Roses	Alice Leveque
171.	Sand and Fog.....	A. W. Best
172.	Redwoods	A. W. Best
173.	Near Cazadero, Mill Valley.....	H. C. Best
174.	Sand Dunes.....	H. C. Best
175.	The Old Lady.....	Joseph Greenbaum
176.	Choir Boy.....	Joseph Greenbaum
177.	The Old Mariner.....	Joseph Greenbaum
178.	Portrait	Eleanor Warren
179.	Portrait	Chris. Jorgensen
180.	Portrait	H. Duesbury
	Owned by E. D. Norran.	
181.	Portrait	S. W. Shaw
	Owned by S. W. Holladay.	
182.	Portrait	S. W. Shaw
183.	Black Grapes, Hamburg.....	Mrs. Kate Pettee
184.	Grapes, Muscatel.....	Mrs. Kate Pettee
185.	English Fishing Boats.....	James Hamilton
	Owned by Mrs. T. Parrott.	

No.	Title.	Artist.
186.	In the Sand Hills.....	Manuel de Uruisuela
187.	Sunset, Point Lobos, Monterey.....	C. D. Robinson
188.	On the Ocean Beach.....	C. D. Robinson
189.	Shore, Marine.....	C. D. Robinson
190.	Happy Thoughts.....	Helen Hyde
191.	Study.....	Jules Pages
192.	Grandma Mending.....	Mary T. Menton
193.	Still Life.....	Mary T. Menton
194.	Study of Iris.....	Mary T. Menton
195.	Chrysanthemums.....	Mary T. Menton
196.	Glen Ellen Grapes.....	Mary T. Menton
197.	Portrait—Study.....	J. W. Dannatt, Paris
Owned by Henry Raschen.		
198.	Rembrandt van Ryn.....	J. H. E. Partington
199.	Portrait.....	Mary T. Menton
200.	Portrait.....	S. W. Shaw
201.	Portrait.....	S. W. Shaw
203.	Portrait.....	S. W. Shaw
204.	Portrait.....	S. W. Shaw
205.	Madonna.....	Joe Harrington
206.	Carnations.....	Bessie Nolt
207.	Portrait, of Child.....	H. Duesbury
208.	Portrait, of Wm. J. Bryan.....	H. Duesbury
209.	Portrait, Dr. Stebbins.....	Eva Withrow
210.	Early Dawn.....	R. D. Yelland
211.	Nine Sketches of the Yosemite Valley.....	C. D. Robinson
212.	Cupid and Flowers (Painted on China).....	Oscar Kunath
213.	Portrait (Painted on China).....	Oscar Kunath

WATER COLORS.

251.	Planning a Voyage.....	E. Obon
Owned by Mrs. Tiburcio Parrott.		
252.	The Roman Mendicant.....	A. Tabves, Rome
Owned by Mrs. Tiburcio Parrott.		
253.	Old Adobe House, San Gabriel.....	Susan Sroufe Loosley
254.	In San Gabriel.....	Susan Sroufe Loosley
255.	Mexican Hut, Arizona.....	Susan Sroufe Loosley
256.	In the Woods.....	Susan Sroufe Loosley
257.	Hay Landing.....	Mrs. Thomas Gihon
258.	On the Calaveras.....	E. W. Currier
259.	Marine View.....	E. W. Currier
260.	Montgomery Street—Morning.....	A. P. Niles
261.	The Bar by Moonlight.....	A. P. Niles

No.	Title.	Artist.
262.	The Incoming Fog.....	A. P. Niles
263.	Cliff House Beach.....	A. P. Niles
264.	A Bit of the Park.....	A. P. Niles
265.	Street in Chinatown.....	A. P. Niles
266.	Tamalpais.....	A. P. Niles
267.	Under the Trees.....	M. de Vruisuela
268.	Lupines.....	M. de Vruisuela
269.	Sunset.....	M. de Vruisuela
270.	Sketch—Tiburon.....	Mrs. Sophie Brannan
Owned by Mrs. J. E. Brannan.		
271.	Landscape.....	John A. Stanton
272.	Carnations.....	Charles R. Snellgrove
273.	Evening on the Bay.....	Mrs. E. S. Rider
274.	The Presidio.....	Mrs. E. S. Rider
275.	Beech Trees.....	Mrs. E. S. Rider
276.	Sketch from Life.....	L. M. Dixon
277.	Indian Girl.....	L. M. Dixon
278.	Steamship Australia.....	Eda Smitten
279.	Steamship Mariposa.....	Eda Smitten
280.	Roses—Bon Silene.....	Lillie L. Freeman
281.	Roses—White and Red.....	Lillie L. Freeman
282.	Portrait—Sketch.....	Kate C. Thompson
283.	A Sketch.....	Kate C. Thompson
284.	Evening on the Marsh.....	Kate C. Thompson
285.	Sketch—Baker's Beach.....	George Wagner
286.	Isabella Irving.....	Mrs. Lillian M. Candlin
287.	Portrait (Study).....	Mrs. Lillian M. Candlin
288.	In the Foothills.....	Annie Francis Briggs
289.	In Diablo Valley.....	Annie Francis Briggs
290.	Sonoma County Redwoods.....	Annie Francis Briggs
291.	At Fruitvale.....	Annie Francis Briggs
292.	Springtime.....	Annie Francis Briggs
293.	Near Alameda.....	Annie Francis Briggs
294.	Sunlit Road.....	Annie Francis Briggs
295.	Bit of Beach below Berkeley.....	Annie Francis Briggs
296.	Near Berkeley.....	Annie Francis Briggs
297.	Marsh.....	Annie Francis Briggs
298.	Morning in the Hills.....	Annie Francis Briggs
299.	Sketch.....	Jules Pages
300.	Sketch—Black and White.....	Jules Pages
301.	Sketch—Black and White.....	Jules Pages
302.	Sketch.....	Jules Pages
303.	A Park Study.....	Mrs. Lucia K. Mathews
304.	Mission at Santa Barbara.....	Mrs. Lucia K. Mathews

No.	Title.	Artist.
305.	Sketch—At Menlo	Mrs. Lucia K. Mathews
306.	Beach at Santa Barbara.....	Mrs. Lucia K. Mathews
307.	Belvedere	Mrs. Lucia K. Mathews
308.	Study	Mrs. Lucia K. Mathews
309.	A Cloudy Day.....	Mrs. Lucia K. Mathews
310.	Study—At San Juan.....	Chris. Jorgensen
311.	The Prison at Rapello.....	Chris. Jorgensen
312.	Ruins of St. Tomasso, Italy.....	Chris. Jorgensen
313.	Study, of Mission, San Juan.....	Chris. Jorgensen
314.	Fishermen's Boats, Venice in the Background.....	Chris. Jorgensen
315.	San Juan Mission.....	Chris. Jorgensen
316.	Sketch	L. M. Dixon
317.	Point El Campo.....	Mary T. Menton
318.	Poppy Field at Lodi.....	Mary T. Menton
319.	Alameda Swamp.....	Mary T. Menton
320.	Lake Merritt.....	Mary T. Menton
321.	An Old Friend.....	Mary T. Menton
322.	At Anchor.....	Mary T. Menton
323.	Fields at Alameda.....	Mary T. Menton
324.	Autumn Leaves.....	Mary T. Menton
325.	Study of Violets.....	Mary T. Menton
326.	Under the Oaks.....	M. Jordan
Owned by Mrs. Dumhee.		
327.	Moonlight—Venice—Pastel	John M. Gamble
328.	Venice—Pastel	John M. Gamble
329.	Bridge, Auvers, sur Oise—Pastel.....	John M. Gamble
330.	The Passing Shower—Pastel.....	John M. Gamble
331.	Near Belvedere—Pastel.....	John M. Gamble
332.	A Gray Day—Fijevord.....	John M. Gamble
333.	Canal—Rudder Kirche.....	John M. Gamble
334.	Evening	John M. Gamble
335.	Street—Algiers	John M. Gamble
336.	Mount Tamalpais.....	John M. Gamble
337.	South Berkeley.....	John M. Gamble
338.	Rijsoord	John M. Gamble
339.	Sunset, Algiers.....	John M. Gamble
340.	Under the Oaks.....	John M. Gamble
341.	Early Dawn.....	L. P. Latimer
342.	Sketch	Miss M. McCalla
343.	Sketch	Miss M. McCalla
344.	Sketch in Chinatown.....	Miss M. McCalla
345.	Sketch	Miss M. McCalla
346.	Coriopsis	Eleanor Warren
347.	A Modern Instance.....	Helen Hyde

No.	Title.	Artist.
348.	Willows	Helen Hyde
Owned by Mrs. David Bixler.		
349.	Street in Cleeve Prior, England.....	Helen Hyde
Owned by Mrs. David Bixler.		
350.	The Gabled House, Cleeve Prior, England.....	Helen Hyde
351.	Winter Sunshine	Helen Hyde
352.	Girl Reading.....	Helen Hyde
Owned by Mrs. David Bixler.		
353.	Late Afternoon on the Avon.....	Helen Hyde
Owned by Mrs. David Bixler.		
354.	End of the Road.....	Helen Hyde
Owned by Mrs. David Bixler.		
355.	Alameda Marsh.....	Alice Francis Briggs
356.	A Fruitvale Sketch.....	Annie Francis Briggs
357.	At Low Tide.....	Annie Francis Briggs
358.	Pastel Portrait.....	Alice B. Chittenden
Owned by Capt. Wm. B. Taylor.		
359.	Pastel Portrait.....	Alice B. Chittenden
360.	Mission Slough.....	John M. Gamble
361.	Alameda Marshes.....	John M. Gamble
362.	The Golden Gate.....	C. A. Rogers
363.	Tempi Passati	Oscar Kunath
Owned by Frederick Zeile.		
364.	Portrait in Pastiche.....	Oscar Kunath
365.	Portrait	Oscar Kunath
366.	Portrait	Oscar Kunath
367.	Wine, Woman and Song.....	Oscar Kunath
368.	Portrait	Oscar Kunath
369.	Spring Morning.....	J. M. Griffin
370.	Evening, Banks of the Lee.....	J. M. Griffin
Owned by E. A. Wright.		
371.	Study—In Chinatown.....	Chris. Jorgensen
372.	Think I'll go in.....	Chris Jorgensen
373.	Monterey Bay.....	F. E. Jas. Anderson
374.	Golden Gate (looking in).....	F. E. Jas. Anderson
375.	Evening, on Baker's Beach.....	F. E. Jas. Anderson
376.	Raising the Flag at Monterey, 7th July, 1896.....	F. E. Jas. Anderson
377.	View from Telegraph Hill.....	F. E. Jas. Anderson
378.	Cliff House.....	F. E. Jas. Anderson
379.	Beach near Cliff House.....	F. E. Jas. Anderson
380.	San Francisco Harbor.....	F. E. Jas. Anderson
381.	Sunset, Golden Gate.....	F. E. Jas. Anderson
382.	Golden Gate (looking out).....	F. E. Jas. Anderson

No.	Title.	Artist.
384.	Arab Yard—El Bear.....	John M. Gamble
385.	The Hudson from Edgewater.....	John M. Gamble
386.	Near Venice.....	John M. Gamble
387.	Roman Peasant Girl (Pastel).....	Eva Withrow
388.	Spring (Pastel).....	Eva Withrow

BLACK AND WHITE.

401.	Study	C. J. Tharp
	Owned by C. K. Tharp.	
402.	Study	C. J. Tharp
	Owned by C. K. Tharp.	
403.	Sketch Alameda.....	Miss Sophie Brannan
404.	Sketch—Alameda	Miss Sophie Brannan
405.	Low Tide.....	Miss Sophie Brannan
406.	Alameda—Sketch	Miss Sophie Brannan
407.	Sketch—Normandy	Mollie G. Hutchinson
408.	Fete Dieu, Brittany, France.....	Mollie G. Hutchinson
409.	Market Place, Verona.....	Mollie G. Hutchinson
410.	Chiquita	L. M. Dixon
411.	Sketch, from Life.....	L. M. Dixon
412.	In Chinatown.....	Lillian G. Fisher
413.	Study	Lillian G. Fisher
414.	Joss House, Entrance.....	Lillian G. Fisher
415.	Joss House.....	Lillian G. Fisher
416.	Study	Lillian G. Fisher
417.	"Bulletin" Art Exhibit.....	
	Owned by Bulletin.	
418.	"Overland Monthly" Art Exhibit.....	
	Owned by "Overland Monthly."	
419.	Cork City, Original Etching.....	J. N. Griffin
420.	Scene in Cafe Vachette, Paris.....	Edouard A. Cucuel
	Owned by E. Cucuel, Sr.	
421.	At the Salon.....	Edouard A. Cucuel
	Owned by E. Cucuel, Sr.	
422.	Parisien Love Quarrel.....	Edouard A. Cucuel
	Owned by E. Cucuel, Sr.	
423.	Portrait, James Lick.....	Samuel Gasking
424.	Portrait, Professor Joseph Le Conte.....	Samuel Gasking
456.	Exhibit Art Department.....	
	Owned by Morning Call.	
457.	Exhibit Art Department.....	
	Owned by Morning Call.	

No.	Title.	Artist.
WOOD ETCHING.		
390.	St. Ceilia.....	Mrs. Chris. Jorgensen
391.	Mater Dolorosa.....	Mrs. Chris. Jorgensen
392.	The Smokers.....	Mrs. Chris. Jorgensen

STATUARY.

425.	Marble bust of Gov. J. Downey.....	Rupert Schmid
	Owned by J. D. Harvey.	
426.	Portrait bust of Dr. H. H. Harkness.....	Rupert Schmid
	Owned by Dr. Harkness.	
427.	Portrait bust of Col. Herbert Choynski.....	Rupert Schmid
	Owned by Col. Choynski.	
428.	Portrait Medallion of Mr. and Mrs. Peter Donahue.....	
	 Rupert Schmid	
429.	Bronze bust of Pope Leo XIII.....	Rupert Schmid
430.	Panel, "Billiard Player" (to be cast in bronze for the billiard room at Dr. J. Pescia's residence)....	Rupert Schmid
431.	Awakening	Otto Dobbertin
432.	Bust of M. H. De Young.....	Otto Dobbertin
433.	Degeneration	Otto Dobbertin
434.	Bust of Marguerita.....	Fredrick Flohr
435.	Alto-relief Portrait of Miss N. G.....	Fredrick Flohr
346.	Medallion Portrait of the late F. D. Stadtmuller...	Fredrick Flohr
437.	Bust of Fredrick Flohr.....	Max Reinhardt
438.	Bust, A Young Athlete.....	Robert Thomas
506.	Bas-relief	Maurice Selig
	Owned by Mrs. Humphreys.	
507.	Sketch for Grave Monument.....	Frank Happersberger
508.	Portrait, Bust.....	Paul Rosenstein
	Owned by Louis Lebenbaum.	
509.	Bust	Robert Thomas

WOOD CARVING.

450.	Frame with Flowers.....	Marsimiliano Pohl
451.	Bracket (wood carving).....	Marsimiliano Pohl
452.	Cupid, with Fan.....	Marsimiliano Pohl
453.	Cupid Letter Holder (wood carving).....	Marsimiliano Pohl
454.	Pedestal (wood carving).....	D. Fenaia
455.	Cupid	Marsimiliano Pohl

OUTSIDE GALLERY.

475.	Upper End of Loch Lomond.....	Alex. Nicholson
476.	The Silver Strand.....	Alex. Nicholson

No.	Title.	Artist.
477.	Japanese Peonies.....	Mary E. Bruenn
478.	Old Mill at Mill Valley.....	Mary E. Bruenn
479.	Kenwood	Bessie Nolt
	Owned by H. Nolt.	
480.	Hay Field.....	S. M. Farnum
481.	Joe Jefferson.....	George Wagner
482.	Wisteria	Mrs. Kate Pettee
483.	Chrysanthemums	Mary E. Bruenn
484.	Golden Pheasant.....	E. W. Currier
485.	Fish	E. W. Currier
486.	Lilac	Mrs. Kate Pettee
487.	La France Poppy.....	Mrs. M. Davis Burton
488.	Vase of Roses.....	Miss G. Osbourn
489.	July 4th, 1895.....	S. M. Farnum
	Owned by S. N. Farmer.	
490.	The Doctor.....	Miss C. H. Hammit
491.	Early Morning, Sausalito.....	E. W. Currier
492.	California Violets.....	Bessie Nolt
493a.	San Lorenzo Creek.....	Bessie Nolt
493.	A Country Road.....	Lillie L. Freeman
494.	Umatilla	H. Hammerstrow
495.	Flowers	Mrs. M. Davis Burton
496.	Violets	F. M. Hey
497.	The Cloister Kitchen.....	Geo. Wagner
498.	Fruit	Oscar Kaltschmidt
499.	Scene from Ivanhoe.....	Oscar Kaltschmidt
500.	Tea Roses.....	Mrs. Kate Pettee
501.	An Afternoon at Redondo.....	E. W. Currier
502.	La France Roses.....	Mrs. Kate Pettee
503.	Fleur de Lis.....	Mrs. Kate Pettee
504.	Quarter Hour in Ratelais.....	R. L. Goldberg
505.	Old Musician.....	R. L. Goldberg
510.	A Marine Bargain.....	H. R. Hopps
511.	Exhibit of the Pupils of the Mechanics' Institute Evening school	

DECORATED PORCELAIN, ETC.

523.	Case of Decorated Porcelain.....	Miss Roberts
524.	Case of Decorated Porcelain.....	Miss Roberts
525.	Case Porcelain Painting and Art Needle-Work (Amateur)..	
		Mrs. J. H. Gilmore
526.	Case Decorated Porcelain.....	Miss H. D. Philip
527.	Case Ceramic, Decorated Porcelain.....	
		Mrs. M. E. Perley and Mrs. S. V. Culp

No.	Title.	Artist.
528.	Case Ceramic, Decorated Porcelain.....	
		Mrs. M. E. Perley and Mrs. S. V. Culp
529.	Case Ceramic, Decorated Porcelain.....	
		Mrs. M. E. Perley and Mrs. S. V. Culp
530.	Case Decorated China and Art Needle-Work.....	
		Miss L. N. Smith and Miss Josie Stephens
531.	Waxwork	Mrs. Kate Pettee
532.	Fire Etching, on Wood and Leather.....	
		Miss Lillian O'Hara and Miss Grace Livermore

TAPESTRY.

534.	Painted Tapestry.....	G. Dietz
535.	Painted Tapestry.....	G. Dietz

CHARCOAL DRAWINGS.

520.	Study—Head	Henry Raschen
521.	Study—Head	Henry Raschen
522.	Portrait	Lillie L. Freeman

REPORT UPON THE ARTICLES EXHIBITED

AT THE

TWENTY-NINTH INDUSTRIAL EXPOSITION.

The awards this year were made upon the plan usually followed, i. e., upon the jurors' recommendations.

The awards consisted of "Certificates of Superiority," the design for which was made by Perham W. Nahl, and which was selected by the Trustees from the many designs offered.

The Certificate reads as follows:

TWENTY-NINTH INDUSTRIAL EXPOSITION OF THE MECHANICS' INSTITUTE

Of San Francisco.

HOME PRODUCTS EXPOSITION,

Under the Auspices of

THE MECHANICS' INSTITUTE AND MANUFACTURERS' AND
PRODUCERS' ASSOCIATION.

CERTIFICATE OF SUPERIORITY.

Awarded to

For

.....President.Secretary.

For premiums awarded, see Classified List.

[Note.—Where an exhibitor exhibits in more than one class, the report upon the exhibit will be found in one class only, and in the other classes a reference is made to the class in which it is reported on.]

CLASS No. 1.

ENGINES, BOILERS AND APPLIANCES.

Union Iron Works—Compound Engine driving dynamo, Baby Hoist (Class 1), Two Stamp Quartz Mill, Rock Breaker for light work,

DESCRIPTION OF EXHIBITS.

81

Union Improved Concentrator (Class 6), Models of vessels (Class 9), Model of Union Iron Works (Class 47).

The exhibit of this world renowned iron works was extremely creditable from every point of view. The compound steam engine, driving a dynamo which furnished light for the vicinity, is worthy of special commendation as to workmanship, design and performance, embodying all features of the most advanced practice known to the art at this time. The display of mining machinery was equally creditable, and the many models of the vessels constructed at the works were enough to convince one that the ship building industry has been permanently established on this Coast.

The Union Improved Concentrator received the Certificate of Superiority from the jurors as being in the judgment of the Committee the best machine of its class entered.

The large and faithfully constructed model of the Union Iron Works, which took up a large part of the Electrical Hall, attracted a great deal of attention.

I. S. Van Winkle & Co.—Gas and Gasoline Engine (Class 1), Concentrator, Kinkead Quartz Mill (Class 6).

This exhibit was well arranged and made a good showing.

Hadwen-Swain Mfg. Co.—Gas Engines.

These engines are operated with the gas generated by their own action from gasoline or coal oil, by ordinary city gas or natural gas. One of the systems of ignition consists of a small, straight tube connecting with the cylinder and kept at a red heat by a gas or gasoline jet. The heat generated in the engine itself is utilized for ignition.

J. L. Hicks—Gas Engine operating Dynamo.

This engine was in continuous operation during the Fair, and attracted much attention, both for itself and for the attractive way the lights produced by the dynamo were arranged.

Risdon Iron Works—Heine Water Tube Boiler (Class 1), 5 ft. Bryan Quartz Mill (Class 6), 4 ft. Bryan Quartz Mill (Sectional) (Class 6), 6 ft. Belt Johnston Concentrator (Class 6), Ore Feeder, Hoskins Giant, Fisher Giant (Class 6), Wrought Iron Pulleys (Macheth) (Class 12), Hammered Steel Shoes and Dies (Class 12).

The Heine Boiler is too well known to need any further description.

The Bryan Quartz Mills, which combine all the advantages of the Arastra and the Chile Mill, were run during the whole Fair.

The Johnston Concentrator is the invention of George Johnston, who was the inventor of the first revolving belt Concentrator "with raised edges and a shaking or rocking motion from side to side." They are used extensively wherever Concentrators are needed.

California Tule Anti-Caloric Co.—Plaster and Steam Pipe Covering.

Geo. H. Foye & Co.—Alarm for Steam Boilers.

Krogh Manufacturing Co.—Tandem Compound Engine (Class 1), Centrifugal Triple Action Pump (Class 2), Deep Well Pumps (Class 2), Wine Press and Crusher (Class 1).

The Centrifugal Pump in this exhibit had the capacity of 30,000 gallons per minute, and was operated by the Tandem Compound Automatic Cut off Krogh Engine of 90 Horse Power. The Krogh Co. have made a specialty of pumping plants.

CLASS No. 2.

HYDRAULIC MACHINERY AND STEAM PUMPS.

C. H. Evans & Co.—General Display of Steam Pumps, Crank and Fly Wheel Steam Pump, Cannery Air Pump, Air and Circulating Pumps, Belt Power Pumps, Deep Well Steam Pump.

This exhibit contained different sizes of the well known Thomson & Evans Patent Crank and Fly Wheel Pump, in operation, four pumping water and one, air, one of the Deep Well Steam Pumps in operation, and one of the Improved Twin Cylinder Power Pumps operated by belt from main shaft. Special attention is called to the continuous flow Crank Pump, one of the first of its class commercially manufactured in this country.

This firm for many years has had a justly earned reputation and which their exhibit verified, for making pumps that are simple, effective and economical.

Whyte & De Rome—Hewson Double Multiple Expansion Steam Turbine.

This Turbine was in operation driving a pump, and from its novelty attracted great crowds. (See also Class 16).

Krogh Mfg. Co.—(See Class 1).

Joshua Hendy Machine Works—(See Class 6).

CLASS No. 3.

MACHINISTS' TOOLS AND METAL WORKING MACHINERY.

Cahill, J. L.—Advertising Machine (Clock).

Geo. Cumming & Co.—Portable Forges and Hand Blowers.

The Cumming Forges and Blowers are known and used all over the world. They are a departure from the old style forges commonly used and which have more or less wooden and leather parts. Everything about the Cumming Forges and Blowers is of iron, steel or phosphor bronze, and they are light, strong, handy and do all the work required of them.

John Weichart—Assorted Tools and Dies, Planing Mill Supplies. (See also Class 11).

Judson Manufacturing Co.—Tack and Nail Machinery in operation (Class 3), Bar and Structure Iron and Steel, Wrought Iron Columns, Bridge Material, Shafting, Miniature Bridge, Cut Nails and Tacks—in process of manufacture (Class 12).

The tack and nail machines which were turning out the finished product during the Fair, were one of the attractions of Machinery Hall, and the balance of the display showed what can be done on this coast in that line. The exhibit comprised all sorts of nails and tacks from the very smallest tacks to the largest spikes.

CLASS No. 4.

WOOD WORKING MACHINERY.

Joshua Hendy Machine Works—(See Class 6).

CLASS No. 5.

MISCELLANEOUS MACHINERY.

M. O'Brien—Roller Mills, Flour Dressers, Barley Steamers. (See also Class 11.)

S. F. Call—Stereotype Plates (Class 5); Paper and Matrices (Class 25).

This exhibit under the charge of E. F. Distet, foreman of the Call's zincographing department, was a revelation to the visitors of the process by which the lines of a picture by the simple action of light on a chemically prepared plate are transferred to the stereotyped form, from which thousands of impressions are made. There were also shown papier mache matrices from which the metal pages of the Call are molded, side by side with the stereotype forms themselves. Besides a portrait plate of McKinley in gold, and one of Bryan silvered, there were plates showing the different processes of zincographing, and also a pretty collection of pen and ink sketches from the Art department.

S. F. Chronicle—Stereotype Plates (Class 5), Paper and Matrices (Class 25).

The Chronicle exhibit was interesting and instructive. It was arranged in such a skillful manner that everything could be seen. Stereotype plates and matrices were shown in the form of a tower, at the base of which was a display of art work, showing the newspaper illustration in its various stages from the pen drawing of the artist through the zinc photographing and etching processes to the completed picture. Rolls of paper of the four sizes used by the Chronicle were displayed.

Baker & Hamilton—(See Class 11).

Gravity Can Labeling Machine Co.—Gravity Can Labeling Machine.

This machine seemed to do everything but think. All there seemed to be to do was to put the cans on it and they were rolled off labeled.

Wetmore Bowen Co.—(See Class 42).

CLASS No. 6.

MINING MACHINERY AND APPLIANCES.

Pacific Mining Machinery Co.—Amalgamator.

Rix Compressed Air Machinery Co. and Fulton Engineering and Ship Building Works.—Compressed Air Machinery.

This exhibit showed the many uses to which compressed air may be put. Rock drills were kept drilling holes in granite. Pneumatic calking tools were used to carve on

blocks of marble, showing what fine work of that character can readily be done by a man of limited experience with the aid of the rapidly reciprocating pneumatic tools and finely designed chisels attached to them. Two sizes of hoisting engines were operated by compressed air, and also a direct acting Dow pump. A centrifugal pump, directly connected to a vertical air engine, furnished a flow of about 500 gallons per minute. There was also an air tangential wheel made like a tangential water wheel directly connected to a Westinghouse dynamo, which furnished at intervals a dozen or so incandescent lights, air being furnished at a pressure of 90 lbs through a 3-16ths nozzle. This wheel made 2,000 revolutions. The joint exhibit of these two firms reflected credit on both.

Union Iron Works—(See Class 1).

I. S. Van Winkle & Co.—(See Class 1).

E. G. Denniston—Amalgamated Mining Plates.

These plates are made only of the best Lake Superior copper and refined silver. Mr. Denniston has been making these plates for over 35 years, and their reputation is known wherever mines are in operation.

F. A. Huntington—Centrifugal Mill, Roller Mill, Ore Feeder.

Geo. E. Woodbury—End Shake Concentrator, Side Shake Concentrator.

The most distinguished feature of these machines is the pulp distributor, which is automatic and unerring in its operation. These concentrators are made in the most substantial and workmanlike manner, entirely of iron, steel and brass. The drums are of galvanized iron with patent springs to take up lost motion, thereby preventing the jarring or knocking which would cause sand to back on the sides of the belts, causing great loss of mineral.

Joshua Hendy Machine Works—Water Motor (Class 2), Wood Working Machinery (Class 4), Mining Machinery (Class 6), Laundry Machinery (Class 7), Car Wheels, Castings, etc. (Class 12).

This exhibit reflects great credit on the manager of the Joshua Hendy Machine Works, Mr. S. J. Hendy. That the artistic taste displayed in arranging the machinery presented, which of itself was a difficult task, added vastly to the other notable attractions of the Exposition of "Home Products" goes without saying.

Following is a detailed account of the exhibit:

In Class 2 was a Water Motor.

In Class 4 a Portable Double Circular Saw Mill in position for operation and driven by belt and pulleys to show its motion. A Set of Fractional Lever set Head Blocks of the latest improved medium style, a Gang Edger of improved medium size.

Class 6, Double-jointed Ball-bearing Hydraulic Giants (one large and one small) of a recently patented novel and improved form. Nozzles for Hydraulic Giants, Deflectors for use with Hydraulic Giants of different sizes. Cast-iron Water Gates of different sizes, noticeable for their appearance of strength and durability, in combination with elegance of design.

Model (cast iron) of Hydraulic Gravel Elevator.

Model of Loveridge Hydraulic Derrick.

"Hercules" Ore Crusher after the Blake pattern of the largest size, capable of crushing 100 tons of ore or rock per day of 12 hours.

"Challenge" Automatic Ore Feeder attached in position to a Two Stamp Quartz Mill. "Hendy" Improved "Triple Discharge" Two-Stamp Quartz Mill, recently designed and introduced. The mortar has a front outlet and one on each of the two ends or sides permitting an unusually large screen discharge capacity. The combination of heavy stamps weighing 850 pounds and dropping 110 per minute, together with the large screen discharge area, assures an abnormal crushing capacity.

"Triumph" Ore Concentrator, End Shake, and "Hendy-Norbom" Ore Concentrator, Side Shake, both driven by belts and pulleys.

Cast Iron Amalgam Retorts of graded sizes.

A water condensing pipe attached to largest one.

Davis "Sensible" Horse Power Hoisting Whim in position with ore-bucket attached (designed for use in sinking shafts in opening mines), capable with one horse of raising 800 pound load 75 feet per minute. Substantially and compactly built. Ore bucket attached to above whim, filled with specimen gold ores from different mines.

Ore cars, large and small, arranged to dump either at ends or sideways.

Class 7.—Tyler Hand Ironer for Laundry use.

Puff irons heated by steam for Laundry use.

Class 12.—Cast Iron Mortar for Five Stamp Battery for Quartz Mill, a highly finished piece of casting. Several sets of Car Wheels and Axles, also different sizes of Car Wheels, turned and finished with exactness, also Cams, Tappets, Stamp Heads, Shoes and Dies, Grate Bars, Cast Iron Medallions, Gilded Cast Iron Urns for plants and garden ornamentation, Fence Posts, Railings and Iron Signs, Water Columns and Gauges, Hangers, Boxes, Collars and Washers, Castings of Angels' Heads and Wings, Unicorns and other fancy Castings.

The souvenirs freely distributed were eagerly sought for. They were of unique design, being cast-iron cigar ash trays in the likeness of a cat's head.

Prospective Mining and Machinery Co.—Tremain Steam Stamp.

This steam ore stamp consists of two steam stamps operated as follows: The stamp, weighing complete with piston and piston rod 3,000 pounds, is lifted 5 inches by the admission of steam to the under side of the piston head, and as the stamp reaches its maximum height the same steam is admitted to the upper side, the steam force is exerted downwards and a blow of 1,000 pounds struck 180 times per minute, crushing the quartz rapidly and enabling it to pass to the apron plates without being powdered to a slime, thereby effecting a saving of gold.

Golden State and Miners' Iron Works—Gasoline Prospecting and Sinking Pump.

A. S. Hallidie—Model Ropeway.

The Hallidie System of Ropeway designed for transportation of ore, etc., over rocky and mountainous country is especially adapted to mines highly elevated in the mountains, and if there is sufficient fall (say 1 foot in 8) will run by gravitation, reducing the transporting expense to a minimum.

The general principle is an endless steel wire cable working around horizontal sheaves about 8 feet in diameter at each end and supported on intermediate towers about 150 feet apart, on the projecting arms of which are fair leader sheaves, one end of the Ropeway being at the mine and the other at the mill or reduction works. The carriers which convey the ore are attached by a clip to the steel rope. The projection of the clip presents no obstruction to its traveling

between and around the sheaves and fair leaders on the Ropeway.

Another feature was a grip pulley designed to enable the cable of the Ropeway to be controlled and prevent its slipping in the grooves of the grip pulley. This is adapted for logging purposes, for transmitting power and for cable roads. A large number of these ropeways are in use.

Risdon Iron Works—(See Class 1).

Midas Gold Saving Machinery Co.—Gold King Amalgamator.

The system of amalgamation used by this machine is entirely independent of the gold specific gravity, but is secured by a positive and forced contact with the plate surface without causing any scouring action whatsoever. It is especially adapted to securing the fine and flour gold, as well as floured mercury that is often held in suspension in the slimes.

Ellis Concentrator Co.—Ellis Concentrator.

L. Radovich—Adjustable Rock Breaker and Pulverizer for miners' and assayers' work.

This was in and formed part of the attraction of the Krogh Manufacturing Co.'s exhibit.

CLASS No. 7.

LAUNDRY MACHINERY.

Baker & Hamilton—(See Class 11).

Joshua Hendy Machine Works—(See Class 6).

CLASS No. 8.

FIRE APPARATUS AND APPLIANCES.

B. E. Henriksen—Adjustable Hose Bridge.

This invention is to supply a well known want that is the usual accompaniment of fires in cities or large towns where street car tracks are crossed by fire hose during a conflagration. An insignificant fire, or even an alarm, will often tie

up for a time a large number of cars, greatly inconveniencing the public and causing great loss to the companies, which can apparently be avoided by the use of Mr. Henriksen's device, consisting of adjustable uprights to be placed each side of a car track and of sufficient height to hold the hose above the cars, thereby at any time causing only a temporary stoppage of traffic.

Dyer Bros.—Fire Escapes and Fittings (See also Class 12).

Bowers Rubber Co.—Hose Reel (See also Class 24).

CLASS No. 9.

MARINE.

G. M. Towle—Model Yacht.

The fine finish and exquisite workmanship of this yacht attracted much attention.

E. C. Benson—Models of Boats.

These models were of various designs and all well made.

Aaron Davis—Ship Model.

This handsome model was correct in every detail.

Union Iron Works—Models of War Vessels (See Class 1).

Geo. W. Kneass—Naphtha Launch, Skiff, Row Boat.

The Launch was sold for a pleasure boat for Salt Lake. It was handsomely upholstered and furnished. It was 23 feet long with a 5-foot beam, seating 20 persons, and was propelled by a 4 Horse Power Gasoline Engine.

The exhibits in this class go to prove that we can build smaller boats in California as well as war and merchant vessels.

CLASS No. 10.

SEWING MACHINES, KNITTING MACHINES, BRAIDING MACHINES, AND LOOMS.

[There were no exhibits in this class.]

CLASS No. 11.

AGRICULTURAL MACHINERY.

M. O'Brien—Pea Sheller, Elevator Boots (See also Class 5).

Besides the flour mill machinery in Class 5 exhibited by Mr. O'Brien this part of this exhibit helped to make an attractive display.

Hanford Agricultural Works—Rotary and Orchard Plow.

John Weichart—Model of Hay Cutter (See also Class 3).

G. E. Chittenden—Ladders.

These ladders are an innovation in that particular line. They can be lengthened and shortened at will.

Baker & Hamilton—

Class 5—Barley Crusher.

Class 7—Washing Machines.

Class 11—Combined Cheese Press, General Display of agricultural machinery and implements as follows: Garden Barrow, Stove Truck, Sulky Plow, No. 1 Gem Seed Sower, No. 3 Gem Seed Sower, MacLeod Cultivator, Side Hill Plow, Jackson Gang Plow, Eureka Gang Plow, Eureka Jr. Gang Plow, Peerless Gang Plow, Read Plow, Vineyard Plow, Steel Beam Clipper Plow, Wood Beam Clipper Plow, New Series Gorham Improved Broad Cast Seeder.

Class 13—Milk Cans, Three and Ten Gallon "Detroit," Ten Gallon "Dubuque."

Class 20—Benicia Grocery Wagon Nos. 20 and 22, Benicia Milk Wagon No. 18, Benicia Laundry Wagon, Benicia Open Victor Buggy, Benicia Open Business Buggy, No. 12.

Class 23—Butter Cutters, Butter Molds, Butter Boxes, 100 Gallon Vat, 100 Gallon Andrews "King of Churns," 150 Gallon Improved Factory Box Churn, Lever Butter-workers, Wash Sinks, Cheese Hoops, Simpson's Improved Jumbo Butter Molds, Simpson Baby Butter Molds, Simpson Baby Cutter.

It would be impossible in the limits of this notice to do anything like justice to this, one of the largest and most admired exhibits of the Fair, or to mention in detail the merits of the different articles exhibited.

The display of agricultural implements alone is worthy of special commendation. We might mention especially the Eureka Jr. Gang Plow. Special notice should be taken of the open Business Buggy displayed.

It is plainly evident that the enterprise of Baker & Hamilton, which has been one of the firm's distinguishing characteristics since "early days," is still one of their strong traits. They have been exhibiting for many years at the Mechanics' Fair, and each year they seem to surpass their previously uneclipsed efforts.

H. N. Cook Belting Co.—Patent Draper (See also Class 24).

J. P. Howe—Model of Harrow.

California Stump Puller—Stump Puller, Snatch Block, Draft Hook.
A very necessary apparatus for clearing land of stumps.

Souney Bros.—Double Cylinder Tooth for Thresher (See also Class 21).

R. O. Thurman—Model of Wire Stretcher.

It is unfortunate that this exhibit was received too late for competition.

CLASS No. 12.

IRON, STEEL AND LEAD.

Geo. W. Pennington & Sons—Forged Steel Shoes and Dies for Stamp Mills, Tool Steel Bars, Forged Steel Crank Shafts.

These shoes and dies are not cast in the desired shape and then hammer marked over, but are taken from the ingot of specially selected steel and put in the desired shape under a large steam hammer, after which they are put through certain processes which hardens them and closes in the grain, rendering them compact and very dense.

Los Angeles Iron and Steel Co.—Corrugated Sheet and Galvanized Iron.

This industry deserves great encouragement. This is the only firm manufacturing these goods on the Coast. Their exhibit was in the form of a tunnel, with their various kinds of iron forming the sides and top. It was brilliantly illuminated by electricity.

Joshua Hendy Machine Works—(See Class 6).

Judson Manufacturing Co.—(See Class 3).

Pacific Axle Co.—Steel Axles.

This is the only firm making axles west of the Mississippi River, and the fact that they supply large quantities of the axles used on this Coast was another proof that Home Products are here to stay. Carefully selected material, first-class workmanship and high finish are features of their work.

Dyer Bros.—Art, Architectural and Structural Iron Work (Class 12), Fire Escapes and Fittings (Class 8).

Nothing sets off a residence more than a handsome iron fence and gates, and Dyer Bros.' exhibit showed that they have the true artistic sense, besides paying strict attention to good workmanship.

Washburn & Moen Manufacturing Co.—Wire Rope, Cable, Barbed Wire and Staples, Barbless Wire, Wire Nails in process of manufacture, Wire Ornaments, Wire Belting, Horse Fence and Fencing Hooks and Eyes.

This exhibit was most tastefully arranged, and showed the many various uses to which wire can be put. Succeeding the California Wire Works, which was the pioneer manufacturer of cables for our street railroads, the Washburn & Moen Co. will, beyond doubt, maintain the envied reputation of their predecessor. The wire nail machines in operation proved a drawing card in Machinery Hall.

California Wire Cloth Co.—Wire Cloth, Fence Netting, Screens, Sieves and Mats.

There is little need for dealers to send East for this class of goods when the California Wire Cloth Co. can turn out on their netting machinery alone, 12,000,000 square feet annually. All their work is equal in quality and as cheap as any done in the United States. Their wire netting is absolutely correct in size and mesh and superior in workmanship and material.

Risdon Iron Works—(See Class 1).

Tuckey & Harris—Key Retainer and Locker.

This ingenious device for keeping a key in place and preventing its being turned, is a boon to all nervous persons, who are afraid of waking up and finding burglars in the room.

W. F. Harmon—Spiral Bed Springs in process of manufacture.

The opinion of many leading hotels is that these springs make the best bed in the world. The Harmon Double Spiral Springs are used also for Spring Seats and Buggy Cushions.

Truman S. Clark & Co.—Iron Bedsteads, Spring Mattresses in process of manufacture.

The superiority of the goods produced by this firm has been well known for many years.

CLASS No. 13.

COOKING, HEATING AND VENTILATING.

Steiger & Kerr—Display of Family Ranges and Stoves, Range or Stove for Household use, Adjustable Grate for stove attached.

As it has generally been maintained by importers that stoves and ranges of this class could not be made here, the efforts of this firm were not in the direction of a general show display, but they sought to draw the attention of the public to the goods themselves. A close and critical examination of the exhibit showed all that ranges can be produced here which in style, workmanship and finish can take their place with the best ever imported, and that all that is necessary to make such an industry a success is a reasonable support from the people of this Coast.

Verrue Instantaneous Water Heater Co.—Instantaneous Water Heaters.

A very ingenious invention by which water can be instantaneously heated. Touch a match to the gas and you have your hot water. The name is no misnomer.

Model Window Hinge Co.—Window Hinges.

With this convenient device a window can be swung inside the house and cleaned without danger to life or limb.

Edwin Shannon—Perfection Window Screens.

With this ingenious invention, which always covers the space left by open windows, mosquito netting is unnecessary. Such an invention would be very popular in New Jersey.

Baker & Hamilton—(See Class 11).

Martin Carrick—Galvanized Iron Lath.

Many experts believe that this invention marks a new era in building construction. The laths are cut from whole sheets of galvanized iron. Each section attaches to the adjoining one by means of a flange, making the finished wall

solid and preventing cracks or bulging. On brick walls plugging and furring is dispensed with, and time and expense saved. Electric light wires can be easily introduced or repaired, as the sections are easily removed and replaced.

U. & I. Co.—Telescope Coffee Pot.

All the lady visitors were greatly interested in the Telescope Coffee Pot.

K. W. Gress—Long Handled Dust Pan.

This invention is the enemy of the venders of medicine for backache, as it obviates stooping over to sweep into a dust pan and helps to lighten the drudgery of housework by its other meritorious features.

James Graham—Stoves and Ranges.

Another shining example of Home products was this exhibit. The exhibit showed conclusively that in the line of fine casting and stove work the Pacific Coast is on a par with all competitors, and that for beauty of design and perfection of workmanship, we can hold our own with any. The high class of workmanship, the artistic finish and the attention paid to economy of space and fuel commend the product from this factory to the general public.

CLASS No. 14.

HARDWARE, CUTLERY, FIREARMS, ETC.

Pacific Saw Manufacturing Co.—Saws, Knives, Mandrills, Curriers, Tanners, General Edge and Saw Tools.

This exhibit consisted of Circular, Mill, Muley, Band, Pit, Cross Cut, Hand, Ice, Butcher and Pruning Saws, also knives for Planing, Moldings, Curriers, Tanners for Bark Machines, Fleshers and Workers, Canning Knives for Fish and Fruit, also Shear Blades for cutting metal, Hammers and Saw Sets, etc. The tasteful arrangement into many beautiful designs showed great care and much artistic skill. This company has supplied these goods for very many years, and their goods are highly appreciated all over the coast.

Britton & Rey—Metal Advertising Signs.

In these days when advertising has become a science, such work as these Metal Signs does its share to keep the public

advised of goods for sale, attracting attention by their neatness of design and finish.

H. S. Simmons—Rubber Stamps.

Charles Gay—Aluminum Heels for Ladies' Shoes.

This exhibit came too late for competition, but it attracted much attention from its novelty.

J. Hobrie—Bread Cutter.

Received too late for competition.

CLASS No. 15.

FIRE AND BURGLAR PROOF SAFES AND LOCKS.

L. B. Nordlund—"Cashmatic" Automatic Change Making Machine and Register.

Cash registers are now so common that they excite no comment, but this machine is certainly novel in so much that it not only registers amount of sales, but drops out the amount of change into the operator's hand by an ingenious mechanism. With this machine a cashier could have no excuse for a mistake in his cash, save carelessness.

CLASS No. 16.

BRASS WORK, GAS AND LAMP FIXTURES, PLUMBERS' GOODS, ETC.

Rapid Safety Filter Co.—Water Filters.

The Rapid Safety Filter consists substantially of two receptacles, one receiving the water directly from the house service pipe, the flow being automatically controlled by a ball valve, and an inner receptacle whose sides are a filtering medium of fibrous asbestos, covered with animal charcoal, through which the water filters and collects in the inner chamber, whence it is drawn off as needed or allowed to flow into a separate storage reservoir conveniently connected for the purpose. The water is allowed to percolate freely by gravity alone through the filtering medium. There were displayed a great many filters of different sizes tastefully arranged.

Henry C. Langrehr—Patent Effervescent Beer Bottle.

This is a bottle or receptacle in which a bottle of beer may be placed, and when opened, practically puts the beer on draught, allowing only a proportionate quantity of gas to escape as the beer is drawn. Any carbonated or effervescent liquids can be successfully used in this invention.

C. F. Kirby, Jr.—Williams Sanitary Bath Tubs.

These tubs, made in both stationary and portable patterns, and in various sizes, allow a free circulation of air all around them, obviating the disagreeable features of the ordinary tubs. They are especially commended for sanitariums, hospitals, suburban residences and apartment houses.

Whyte & De Rome—Donahoo Sanitary Automatic Flusher (See also Class 2).

The Donahoo Flusher can be placed at any point along the line of sewer, flushing straight along the line thereof. It can be placed in the ordinary manhole of any sewer or private drain at a trifling expense without any extra chamber, well or fixture of any kind.

A. J. Tait—Water Filter.

Aerating and Self Cleaning Filter Co.—Water Filter.

The filtering medium is composed of two cylinders of porous earthenware, set one inside of the other, and a space between the two packed with fine animal charcoal, sealed top and bottom with two non-porous earthenware covers, self contained in form and perfectly non-corrosive. The faucet combines in one the purposes of a filter faucet and the ordinary faucet for drawing unfiltered water by separate outlets. By simply turning on and shutting off supply water, every essential function is performed without any care on the part of those who use it; in fact, aeration and self-cleaning can not be prevented every time it is used.

Vapor Bath Cabinet Co.—Vapor Bath Cabinets.

The efficacy of vapor baths for many diseases is well known, and this exhibit was evidence that we can manufacture bath cabinets and similar articles as well here as elsewhere.

Schuster Bros.—The Atchison Beer Governor.

With this machine it is possible to keep beer barrels in a cellar and draw their contents above. It obviates venting the barrel. Each governor is provided with a pressure gauge to tell the pressure of the contents of the keg.

Frank Walker—Walker Siphon Flush Tank.

The Walker Siphon Flush Tank is so exceedingly simple in construction that description is difficult. It has no working parts, and is no more liable to get out of order than a common water pipe. It has no valve or valve seats, and it discharges with a full flow from start to finish.

Geo. C. Dallamore—Sewer Gas Trap, Tide and Flushing Gate.

The working parts of this simply constructed machine are of bronze metal. It is easily placed in position, requiring no adjusting of delicate parts. The valve motion, the only working movement, is governed and acted upon by natural laws of flotation and gravitation. The valve seat is arranged to be reliable under the most trying conditions.

W. W. Gillespie—Welsbach Lights. (Received too late for competition.)

These lights were arranged on a miniature Christmas tree in a beautiful manner.

CLASS No. 17.

GRATES AND MANTELS, MARBLE, ARTIFICIAL STONE, EARTHENWARE, GLASSWARE, ETC.

Thomas N. Furlong—Cement Laundry Trays and Butchers' Tanks.

The concrete in these Laundry Trays is of uniform thickness and thoroughly pressed. The waste water outlet is galvanized metal, with brass bolts, and will not corrode or rust. Mr. Furlong did the cement work on the three new fish tanks constructed for this year's Fair.

Inyo Marble Co.—Marble Pedestals, Slabs, etc.

A splendid display of California Marbles, Onyx, etc.

Elliott & Farrell—Art Brick.

This exhibit consisted of Artistic Hand Cut Brick Work, comprising Ionic columns and capitals, one section of Cornice work, one window Sill and Apron, one Carved Panel representing a specimen group of California fruits, various samples of ornamental building material, etc.

This work has the merit of being novel, artistic and particularly suitable for entrances to residences, ornamentation of buildings, outside and inside decorations, such as man-

tels, medallions, etc., also for cemetery vaults, etc. This process, instead of molding the brick in a plastic state and then baking it, consists of taking the ordinary stock brick of commerce and cutting and carving it into various designs in heavy relief, the carving being done upon brick already burned, the effect being to bring out every detail of the design, however complicated, in a perfectly clean cut manner, besides giving greater finish, bringing out the natural color of the brick (the inside color) and giving a brighter and more uniform appearance and rendering the surface smoother and harder than by the old process.

P. H. Jackson & Co.—Sidewalk Lights and Cement Flooring.

Jackson & Co.'s sidewalk lights are seen on all the business streets of the city, and the class of work they turn out is well and favorably known to property holders.

Fred. Jurgewitz—Plaster Decorations and Ornaments.

Situated on the wall near the office of the Fair these center pieces and other plaster ornaments made a handsome and striking appearance.

Wanner & Maddox—Fire Proof Roofing, Partitions, etc.

This exhibit was located near the fish tanks, and made a very creditable display, showing the use to which these partitions, etc., could be placed.

California Travertine Co.—Marble and Onyx.

This beautiful display from the Travertine quarry at Bridgeport was much admired. This California Travertine is spoken of in the highest terms by competent judges, and in New York City it is pronounced the finest species of marble. These Travertine deposits are extremely rare, and California can be congratulated on having so valuable a deposit within its borders.

Stockton Art Pottery Co.—Art Pottery.

Another of the thriving industries of our State that competes successfully with other places is the Stockton Art Pottery Co., the pioneer manufacturers on the Coast of colored glazed ware and sanitary earthenware. Their products rival any imported goods. They make Tea Sets, Jardinières, Vases, Cuspidors, Pedestals, Cake and Fruit Dishes, Water Coolers, Umbrella Stands, Pitchers, Cracker Jars, etc. One specialty is a flower pot glazed on the outside only, and acting as an ordinary red flower pot and jardiniere com-

bined. With the ordinary jardiniere glazed on the inside, a plant would perish if placed in it, as the glazed surface means death to the plant, as it absorbs no moisture and the roots coming in contact with it die; but this flower pot having the appearance of a jardiniere and being fitted with saucers and drainage vent and not being glazed on the inside, the plant can thrive therein.

Their chief specialty is the Rekston ware, manufactured only by themselves, which is decidedly meritorious, and it will not be long before Rekston ware takes its deserved place among the other celebrated wares of the world.

Jacob Strahle—Slate. (Too late for competition.)

CLASS No. 18.

CARPENTERS', JOINERS', CARVERS' AND STAIR BUILDERS' WORK, ORNAMENTAL GLASS PRINTING, ETC.

California Art Glass, Bending and Cutting Works—Glass; Art, Cut and Ground, Embossed and Cut, Bent, Beveled and Crystallized, Glass Signs and Mirrors.

The astonishing variety of work here exhibited was abundant proof of the extent and completeness of the plant of this Company, and their ability to turn out any kind of work required in their line. Especially interesting was the working part of the exhibit, where every evening two skilled men at the work bench, fitted with all the appliances for making Art glass, plied their profession, one cutting the glass to proper shape and the other putting it together by means of lead bars and solder. This never failed to attract a large crowd. The Art glass exhibited here from the simplest to the most complex designs and from the plainest coloring to the most elaborate combinations of rich colors, showed that only artists and artisans of the highest skill are employed. The most difficult task and that which requires the greatest art and skill is to paint figures in glass and burn them in, and several excellent examples were shown of this class of work, comprising paintings of Cupid and Psyche, Reina Luisa, Longfellow and other beautiful works. There were also many Church memorial windows displayed, some executed in glass, and others represented by full cartoons, the latter being the drawings from which windows for local churches were made.

Mrs. J. A. Marsh—Inlaid Table.

This table, made by Mrs. Marsh herself, showed great care and artistic design. (See also Class 38.)

A. Voss—Miniature Locomotive of Wood.

C. H. Burr—Weather Strips.

For many years Mr. Burr has exhibited his weather strips, which have always been found deserving of an award.

C. H. Allmond—Inlaid Tables.

So beautiful were these tables that they were placed in the Art Gallery to exhibit as works of Art. Some of them contained 8,000 to 10,000 pieces of wood inlaid in such a manner as to excite admiration at their beauty and astonishment at the skill and patience of their maker.

Thomas Hatch—Woods, Veneering and General Instruction therein.

The work of Thomas Hatch has covered the State of California with glory. Visitors to the Chicago World's Fair in 1893 will remember the magnificent display of California in the Forestry Building, which was not even approached by any other State or national exhibit. This exhibit was collected, arranged and cared for by Mr. Hatch.

Like all true enthusiasts, it is a labor of love for Mr. Hatch to talk on the subject of woods and to impart information, and the way his exhibit was crowded and the eagerness of people to learn from him the lessons he was always so willing and ready to impart, was one of the most gratifying features of the Fair.

Geo. F. Atkinson—(Class 18) California and Pacific Coast Wood Novelties, Revolving Cane Stand, Pen Expeller and Holder, Anti-Nicotine Pipes, Polished Sea Bean Watch Charm. (Class 38—Wood Carving.)

The many novelties here exhibited were extremely interesting. Souvenirs and curiosities, principally of native woods, showing artistic skill in design and execution, were greatly admired. Mr. Atkinson has been manufacturing this line for many years, and has received many awards, both here and elsewhere.

W. P. Fuller & Co.—Mirrors (Class 18), Paints, Oils and White Lead. (Class 40.)

The mirrors in this exhibit deserve special mention. The exhibit was in the form of a building, around whose sides were placed mirrors of various sizes, one of them being the

largest mirror ever made in the United States. Facing the main aisle this large mirror was constantly viewed by passers-by. The roof of the building was of variously-colored glass, and the inside was decorated with mirrors and plants, and the effect heightened by incandescent lights. Samples of goods manufactured by W. P. Fuller & Co. were appropriately displayed in and around the building. In front of the building were shown samples of white lead in its various processes. Great interest was displayed in the transparent mirror which was placed in front of a small room built out on the floor, and which acted as a mirror when viewed from the outside, while the parties inside the room could look through to the outside without being seen. This is a recent invention by Fuller & Co., and the first time that the San Francisco public has been favored with a practical demonstration of its possibilities.

Williams Bros. & G. E. Reynolds—Grill Work, Bubble Blowers in process of manufacture.

The grill work here exhibited was very fine.

Reed & Cleve—Patterns and models.

This exhibit contained many fine and varied patterns of machinery and architectural work. Some were of metal, but most of them were of wood. There were patterns of a Gasoline Launch Propeller, Steam Engines, Electrical and Pumping Machinery, Water-Wheels, Mining Machinery, etc., and especially noticeable a set of stove patterns made for Steiger & Kerr.

There were also a large assortment of models in wood and metal, one notable being a cable tramway, and another a compound dredger-bucket, and also a very attractive model of a Huntington quartz mill made of aluminum.

C. M. Plum & Co.—Mantels, Plain and Carved (Class 18). (Class 21) Bookcases, Center Tables, Chairs (upholstered), Chairs (leather upholstered), Carved Sideboard, Mirror, Frames, Cabinet. (Class 38) Wood Carving.

Chas. M. Plum & Co. have established a reputation for fine furniture, which time has made firmer as they continue to turn out work which in design and workmanship is equal to any. The furniture displayed by them at the Fair consisted of sample specimens made at their factory in this city during the past five years.

The carvings exhibited were prepared for the Chicago Columbian Exposition in 1893. They are especially note-

worthy for their excellence. Plum & Co. received the highest award from the Centennial International Exhibition at Melbourne, Australia, in 1888, for the finest upholstered furniture exhibited there.

Bader & Cartwright—Simplex Mirrors.

When Robert Burns wrote:

"O wad some power the giftie gie us,"

Tae see ourselves as ithers see us,"

He did not know of the Simplex Mirror, which is easily attached in any place, and which gives all the effect of a tripliate mirror. It is invaluable to tailors, hairdressers, actors, etc.

C. A. Hooper & Co.—Redwood Buhl.

This magnificent specimen, 5½ feet long by 4½ feet wide and 2 inches thick, was with the exhibit of Thomas Hatch, and was greatly admired.

CLASS No. 19.

MUSICAL INSTRUMENTS.

A. Bruenn—Pianos.

The "Bruenn" Pianos have a deserved reputation for high-class workmanship, finish and tone. One feature is the new patented sounding-board, the great distinguishing feature being that the tone, no matter where struck on the piano, is conveyed to a common center evenly distributed throughout the surface of the sounding-board, thus ensuring even quality throughout the entire scale of the piano.

Carl C. Anderson—Stringed Instruments.

A fine display of guitars, lutes, bandurrias, etc., all made in this city.

C. C. Hornung—Pianos. Touch Regulators.

This exhibit of pianos was of great beauty and perfection. The power and brilliancy of tone and the artistic designs, in all different kinds of woods, were admired and spoken of by all. One piano was in cream white and gold, with panels and case decorated with paintings of California scenery.

Specially interesting was the exhibition of an ingeniously-contrived touch-regulator, invented and patented by the firm. Its utility and simplicity attracted the attention of all connoisseurs.

Robert Fay—Pianos.

Robert Fay's display of California-made pianos was noteworthy in many respects. The arrangement of the display and the quality of the pianos attracted many of the visitors. A piano from this exhibit was used at the special occasions during the Fair for accompanying singers.

F. W. Kreling & Sons—Banjos.

These banjos are manufactured here, and are of superior tone and finish.

CLASS No. 20.

VEHICLES AND THEIR ATTACHMENTS, CHILDREN'S CARRIAGES, HOBBY HORSES, ETC.

Yosemite Cycle Works—Doublet Bicycle, Doublet Steering Tandem, Single Steering Tandem, Ladies' and Gentlemen's Bicycles, Parts and Fittings, showing workmanship.

Now that the bicycle forms such an important part of our daily life, it is encouraging to note that bicycle-making is another of our important industries, and the display here made showed that bicycles can be made in California which, for strength, lightness and general merit, compare favorably with all comers.

O'Brien & Sons—Vehicles, Hack, Coupe, Top Buggy, Open Buggy, Top Rockaway, Open Rockaway, Ladies' Phaeton with Canopy Top, Village Cart.

O'Brien & Sons, local manufacturers, have the reputation for the finest class of work, and make a variety of the latest style, high-class pleasure vehicles.

They exhibited a side-seat, platform-gear wagonette, which is used very much in suburban towns by private families living a short distance from the station; also the new rubber-tire family cabriolet, and the finest five-glass landau that has ever been shown at any Exposition in this city, with all the latest arrangements, as mirrors and inside toilet cases, and upholstered in very rich silk cottoline, making it the ideal landau for ease and comfort. They also showed ladies' phaetons, high gigs and the new-style light road buggy with ball-bearing axles and rubber tires. By far the carriage that attracted the most attention was a plain, ladies' brougham, built on the very latest lines, but showed an elegance of finish and style that would attract one's attention as a carriage that could not be excelled for fine workmanship.

Baker & Hamilton (See Class 11).

The Novelty Company—Baby Jumper.

CLASS No. 21.

FURNITURE, UPHOLSTERY, ETC.

Souney Bros.—Double Cylinder Tooth for Thresher (Class 1). Revolving Invalid Bed (Class 21).

This revolving bed is a boon to the sick room. Suppose a patient on the bed, another mattress is laid on top of him and attached to the bedstead, the mattresses are then turned, and the first mattress and bed clothes removed, the patient meanwhile lying comfortably on his face. When changed the mattress is laid on the patient's back, another turn given the mechanism, and the patient is lying comfortably on his back in a clean bed.

E. H. Marwedel—Window Shades and Poles, Brass Bedsteads.

Mr. Marwedel has been in business here for many years, and his goods have a deservedly earned reputation. Curtain-poles of superior design in trimmings and superior quality of shade cloth were prominent features of the exhibit.

C. M. Plum & Co.—(See Class 18).

T. M. Anthony—Automatic Cot.

Received too late for competition.

CLASS No. 22.

BILLIARD TABLES.

August Jungblut & Co.—Billiard Tables, Racks, Cues, Cushions, Pagoda Tables.

The combination Cue Rack, Marking Stand, and Pin Pool Board displayed was a very rich and finished-looking outfit, and would be an ornament to any billiard-room. The cushions were superb, and of the very latest patent, gotten up especially for August Jungblut & Co.

St. Germain Billiard Co.—Billiard Tables, Racks, Cushions, Cues, General Appurtenances, Parlor Table.

This was an extremely handsome exhibit, which excited a great deal of admiration for its tasteful arrangement and general excellence of everything displayed.

CLASS No. 23.

WOODENWARE, BRUSHES, WIRE GOODS, WILLOW-WARE, ETC.

Weston Basket and Manufacturing Co.—Fruit and Laundry Baskets, Clothes Hampers, Veneer Barrels.

The structure prepared by this exhibit was covered all over in a striking way with basket materials and caught the eye immediately.

J. E. Taylor & Sons—Fancy Brooms in process of manufacture.

This exhibit was in operation all the time, and the little fancy brooms made here were sold in great numbers.

Baker & Hamilton—(See Class 11).

Fulda Bros.—Self-Tightening Tank.

This firm makes all kinds of tanks. This self-tightening device is extremely noteworthy.

G. Biehs—Fancy Baskets, Rattan Baskets, Hampers, Cradles, etc.

This booth was decorated with bamboo twisted into various shapes, and all styles of baskets were placed in appropriate parts to heighten the effect of the whole. The general appearance was very pleasing.

Cyclops Iron Works—Refrigerating Machine.

This large refrigerator occupied a prominent space on the main floor, and was in constant operation during the Fair. This refrigerator does away with the use of ice, using what is known as "The Compression Ammonia System," using anhydrous ammonia as the refrigerating agent. The three stages of the operation are: Compression of gas, condensation of the gas, expansion of the gas. The manufacture of these machines is a specialty of the Cyclops Iron Works, and they are constantly filling orders for them.

Zan Bros. & Co.—Brooms and Whisks in process of manufacture.

It is always an attraction at a Fair to have workmen plying their trade, and many visitors were greatly interested in this exhibit on that account, as well as on account of the finished products displayed.

A. N. Anderson Woodenware Co.—Butter Tubs.

These tubs were in the exhibit of the Dairymen's Union.

Buchanan Bros.—Brushes in process of manufacture, Rolling Pins, Butter Spades, etc.

Buchanan Bros. have been exhibitors at the Mechanics' Fair for many years past, and their exhibit of brushes and the making of same was fully up to their previous efforts, and was just as popular with visitors as in previous years.

D. Woerner—Cooperage.

Among this display was the largest piece of oak cooperage ever made on this Coast. The fancy carving on the casks was especially noticeable.

CLASS No. 24.

BOOTS, SHOES, LEATHER GOODS, ETC.

Kullman, Salz & Co.—Sole, Harness, Cut Bottom Stock, Leather Harness manufactured of same.

This exhibit in the north side of the gallery was a handsome and complete display, besides being tastefully arranged.

L. P. Degen—Leather Belting and Lacing.

This exhibit consisted of Oak Tanned Leather Belting and Rawhide Lace Leather, the specialty of Mr. Degen being the Star Brand Belting. There was here exhibited an immense whole hide, weighing 115 pounds, from a steer which weighed 2,760 pounds when alive. There was also a twenty-seven-inch double-leather dynamo belt, made for the Mutual Electric Light Company, of this City.

H. N. Cook Belting Co.—Patent Draper (Class 11), Rawhide Goods, Leather Belting (Class 24).

This exhibit near the entrance caught the visitors' eye at once. It was a house built of tan bark, and the leather and rawhide goods were placed in and around it. This was a purely home product display, as everything displayed was either a product or had been nourished by the soil of California.

Goldberg & Tweedie—Shoes in process of manufacture.

To say "shoes in process of manufacture" does not convey much of an idea, but when we state that Goldberg and Twee-

die moved their entire factory to the Fair, and that there was a full shoe factory in operation where one could have their measure taken and see the shoe made out of the material, the uppers fitted, the soles sewed on and the shoe ready for the feet, one can form an idea of the attention this exhibit attracted. As these shoes are made for the same price as ready-made shoes, it is small wonder that they have, since the Fair, put eight more men to work, with a prospect of still further increasing their force.

John Utschig—Boots and Shoes.

This was a fine display of men's shoes.

Fred R. Cook—Leather Belting and Lacing (Class 24). Belt Grease (Class 40).

This display was complete and very creditable. Special attention should be called to the link belting displayed here.

John Lind—Boots and Shoes.

The case exhibited contained shoes particularly noticeable for workmanship and finish. The shoes exhibited were of all classes for men and women, from the winter shoe with cork soles to the finest and daintiest dress shoe for the ballroom.

Bowers Rubber Co.—Hose Reels (Class 8). Rubber and Cotton Hose, Beltings, Mats, Matting, etc., in process of manufacture (Class 24).

Too much cannot be said about the enterprise of this firm and the magnificent display. Such exhibits as this help largely to give the greatest value to Fairs by showing to the public the actual workings of factories producing staple goods. The entire process of the manufacture of rubber from its crude state to the finished product was shown here, and many visitors who learned for the first time how rubber hose was made declared that what they had learned from this exhibit was well worth coming to the Fair for.

Siebe Shoe Co.—Ladies' Shoes.

The unique decorations on the walls of this exhibit were composed only of what is used in the manufacture of shoes. Bolts of fine black and brown cloth, neatly hung, furnished the background with bolts of satin as trimmings. Different colored Russia, tan and black kid, also patent leather, were prominently displayed. Thirty samples of shoes from the medium-price McKay-sewed shoe to the finest Louis XV hand-turns were exhibited in handsome glass cases, the bottoms of which were covered with white satin.

Metten & Gebhardt—Leather.

The special feature of this exhibit was the French style finished calfskins, noticeable for their fine mellow, yet firm feel, good wearing quality, and nice finish, which are some of the reasons why they are to a large extent displacing the imported article.

CLASS No. 25.

HEMP, CORDAGE, PIPES, FURS, SILK, HAIR, ETC.

Neville & Co.—Manufacturers of Marshall's Salmon Twine Gill Nets.

This booth, handsomely decorated with fish netting illuminated with electric lights, formed one of the most interesting exhibits of the Fair. For the first time in the history of industrial exhibitions on this Coast, was shown the public the high-class of twine in use necessary to prosecute successfully the great fishing industry of the coast. The manufacture of Marshall & Co. takes the lead in America and the British provinces, for the best quality and durability. Interested throngs of visitors watched the wonderfully quick movements of the operatives as they worked the double knot in forming the meshes. Ladies were especially interested in the fish-netting decorations for their beautiful effects and adaptability for adorning homes.

Tubbs Cordage Co.—Rope Cordage and Twine.

The exhibit of the Tubbs Cordage Company was one of the best they have made at any of the Fairs, both in extent and arrangement. The exhibit comprised all of the different kinds of cordage and binder-twine made by them, from the smallest size up to a 12-inch hawser, and also samples in bales and loose of the fibres from which same were made. A special feature of the exhibit and one which attracted particular attention from all visitors, was the floor of rope which was made in a most artistic manner of 2-inch manilla rope and contained in length of the rope to make same over one mile.

S. F. Call—(See Class 5.)

S. F. Chronicle—(See Class 5.)

Willamette Pulp and Paper Co.—Paper.

California Cotton Mills—Rope Cordage and Cotton Twine in process of manufacture (Class 25). Cotton Fabrics, including Quilts, Comforters, Duck, Drill, Toweling and Cotton Bats (Class 26).

The north side of the main floor was a source of great attraction, but for no reason more than on account of this exhibit. Situated next to the Bowers Rubber Company they showed the process of making the cotton webbing used in the hose made in that exhibit. Besides, their looms were continually weaving cloth, and especially interesting was the machine for winding twine. This ingenious machine wound the thread in balls ready for sale, and the manner in which it worked was very interesting to the spectator.

J. Korper—Fur Garments.

A very artistic and beautiful display of different Fur Garments notable for their quality and workmanship. One noticeable feature of the exhibit was a fox-paw robe, which was made of over 400 paws of the red fox.

F. Marx & Co.—Fine Furs and Garments.

This display was extremely interesting and creditable. The fine quality of goods displayed and the careful and artistic arrangement helped to make this display attractive to the highest degree.

M. Braun—Curled Hair.

It is difficult to make much of a display under ordinary circumstances of curled hair, but Mr. Braun proved his ability to do something more than that deemed possible. Placed on the side of one of the stairways where every one passed it, the bedstead and other articles filled with the hair were admired by thousands.

D. Eisner—Stuffed Seal.

The object of this exhibit was to show that sealskins could be dyed here as well as in London, and if the ladies would appreciate this thousands and thousands of dollars would be kept here. The exhibit consisted of a stuffed seal, the head of which showed the natural sealskin just as it is when caught. The middle part showed what is called "plucked seals;" that is, the natural undyed seal after the stiff, coarse hair is plucked out. The end part showed the finished sealskin as it is when used for manufacturing seal garments.

Berwin & Gassner—Fine Furs and Garments.

This exhibit showed that San Francisco is as far advanced in the manufacture of handsome and costly furs as any of our European competitors. One fine exhibit here was a handsome polar bearskin, one of the finest ever captured. Another was a sealskin jacket trimmed with sable, which was of a design strictly original with Berwin & Gassner.

CLASS No. 26.

SILK, WOOLEN AND COTTON FABRICS, ETC.

Brown Bros. & Co.—Oregon City Woolen Mills (Class 26). Display of Woolen Goods, including Cassimeres, Blankets and Flannels (Class 27). Clothing made of their own Cassimeres.

The display of different classes of goods here made was very large and varied, and arranged, too, in a manner to attract the visitor's attention. The specialties of these mills are the "Oregon City Cassimeres," which are manufactured into the celebrated "Oregon City Cassimere Clothing" and the "Oregon City Blankets."

California Cotton Mills—(See Class 25).

J. J. Pfister Knitting Co.—Knit Bathing Suits, Sweaters, Golf Hose, Bicycle Suits, Silk, Woolen and Cotton Underwear in process of manufacture.

This exhibit contained features never before seen in a Fair in this city. The knitting-machine in continual operation, turning out an endless variety of bicycle and golf hose, sweaters and cardigan jackets, was a constant source of interest. Their immense line of bathing suits, as well as their sweaters, tights, bicycle, baseball, and football suits, and sporting costumes in general, were conceded to be the neatest and most appropriate garments ever exhibited in California.

Carlson, Currier Co.—Silk Thread and Art Embroidery Silks.

The company's exhibit was a very attractive feature of the Fair, and drew forth unqualified commendation from the best judges of silk threads. The most noticeable feature of the exhibit was the machinery in operation, showing the final process of preparing the silk for the consumer, skeining the embroidery silk and winding the sewing and knitting silk on spools. This latter feature especially caught the attention of all ladies who attended the Fair.

Another attractive feature of their exhibit was the complete display of fast color art embroidery silks, showing their extensive and beautiful coloring, shading from light to the darkest tint without a break.

To Californians this recognition of merit of the product of our silk manufacturing is gratifying in the extreme, for it goes far in demonstrating what can be brought about in our State by enterprise sustained by energy, perseverance and good management.

This company engaged in the business of manufacturing spool silk, knitting and embroidery silks, many years ago, and by degrees has grown into a large and steadily expanding business. Several times they have been forced to enlarge their plant, and at last found it necessary to remove their factory to Petaluma, where more room and better facilities could be secured to turn out a sufficient quantity of goods to meet the demand of the trade. The factory has a capacity to consume 250 pounds of raw silk per day, which, if made into size "A" silk thread, would make about 3,000 dozen spools of 100 yards each. All goods turned out bear the well-known brand, "Carlson-Currier Co." The products embrace spool silks, embroidery, knitting and crochet silks, also wash floss, etching, embroidery twist and rope silk (all fast colors), as well as tailors' buttonhole twist, tailors' sewing silk, etc. It is the only industry and manufactory of its kind west of the Mississippi river, and should be encouraged and patronized by those who have the best interests of California at heart. This establishment has exerted a great influence in promoting the general welfare of the State, giving constant and remunerative employment to many hands. It well deserves the patronage it now enjoys, the trade extending all over the Pacific States, Mexico, Hawaiian Islands and Australia.

Golden Gate Woolen Manufacturing Co.—Blankets, Buggy and Carriage Robes, Flannels, Cassimeres, Cloths and Tweeds in process of manufacture.

This was another exhibit in operation which never failed to arrest the attention of visitors to the Fair. Particular attention is called to the fine white blankets exhibited, which, for whiteness, fineness of texture and durability, are excelled by none. The Blue Police Beaver of this mill is equal, if not superior, to the best imported beaver. It has been adopted by the Police Department of this city.

CLASS No. 27.

GENTLEMEN'S FURNISHING GOODS.

Eagleson & Co.—Shirts in process of manufacture.

A number of lady operators were constantly at work in this exhibit, cutting, measuring and finishing shirts. Eagleson's shirts have been known and used by wearers of high-class goods for many years back.

C. P. Heininger & Co.—Canes (See Class 32).

Brown Bros. & Co.—(See Class 26.)

C. Herrmann & Co.—Hats and Caps.

There were very few persons visiting the Fair who did not stop and admire the beautiful display of hats and caps of every description made by Messrs. C. Herrmann & Co., and we wish to state that the firm manufactures hats from the very start to the complete finish. In addition to their large stock, the firm makes a speciality of manufacturing to order ladies' and misses' and children's hats and caps of every style, and prides itself on its original and artistic ideas and designs, and many of our most fashionable ladies and gentlemen are patrons of Herrmann & Co., and have been for years. As manufacturing hatters, they are deservedly entitled to all the attention their handsome exhibit attracted.

K. A. Lundstrom—Hats in process of manufacture.

This exhibit deserves special mention, as it showed the complete operation of making a hat from commencement to the very end.

Mrs. W. W. Hartley—Patent Neckwear.

Chas. Fisher & Co.—Fisher Storm Leggings.

These leggings were, for the first time, exhibited at the Fair, and the many orders received from parties who saw them there was evidence, both of the value of the leggings and of these annual Fairs, as an advertising medium. These leggings allow one to travel out in rainy weather, safe in the consciousness that their trousers are protected from the rain while being preserved from wrinkling, or being otherwise injured.

CLASS No. 28.

LADIES' FURNISHING GOODS, DRESSES, CLOAKS, MILLINERY,

H. Bette, Ladies' Tailor-Made Suits.

A showcase containing fine garments.

Palmer & Godshall—"Ideal" Shoe-string Fastener.

This ingenious little contrivance is a sure preventive of shoe laces coming untied. It is easily put on a shoe and looks quite neat.

Mrs. L. M. Lawrence—Dress Shields.

Equal to any imported goods.

Mmes. Steele & Bergman—Dress-Cutting System.

The ladies were greatly interested in this system.

Mrs. E. D. Lawrence—Dress-Cutting System.

This system is well and favorably known.

Mrs. W. W. De Pons—Paper Flowers and Goods.

These were made in the Fair.

Mrs. S. Bankhead—Comforters and Pillows.

Several people were engaged at this work during the Fair.

Mme. Alma E. Keith—Millinery.

This exhibit of trimmed hats and bonnets was made by Mme. Keith to show her designs, equaling the French, and, in many instances, surpassing them.

Flynn & Co.—Dress-Making School.

Another exhibit which attracted the many lady visitors.

Mrs. F. Ansorge—Paper Flowers, Chenille Ornaments, Hat Ornaments, etc.

They were made in the Fair, and called forth much admiration.

CLASS No. 29.

ELECTRICITY AND ELECTRICAL APPLIANCES.

C. R. Fraser—Switchboard, Miniature Electric Plant, Dynamo.

This miniature electric plant was a working model of the Edison electric lighting system.

Heald's Business College—(Class 29), Dynamos, Watt Meter, Ammeter, Galvanometer, Rheostats, Switches, Winhurst Electric Influence Machine, Induction Coil and Fluoroscope, Multiple Dynamos, Railway Motor, Tangent Galvanometer in process of manufacture. (Class 38), Penmanship, Typewriting, and Art Drawings.

This old, well-known and progressive institution made a display which is worthy of special mention. Believing that few of the visitors to the Fair fully realized what the college was accomplishing in the line of practical instruction in electricity, a complete electric light and power station was fitted

up in the north gallery, where could be seen in operation dynamo-electric generators, motors, arc and incandescent lamps, a complete switchboard with ammeters, voltmeters, and galvanometers of several varieties, and Wheatstone bridge-measuring apparatus, almost all of which were made in the college workshop by students, besides being erected and operated by them. There was also a Winshurst electric influence machine, and the famous X-Ray was exemplified with coil and fluoroscope designed and made by the students in the college. A class of students was shown at work constructing an electric car, winding armatures, making electrical measurements, etc. In fact, the exhibit was an excellent exemplification of the practical methods of instruction in the electrical department. The college also exhibited specimens of mechanical drawing, plain, and fancy penmanship.

A very popular feature was the automatic shading penwork on artistic cards, which were eagerly sought by visitors.

Van der Naillen's School of Engineering—Electric Railway operated by trolley electric railway, underground system. General electrical appliances manufactured by students. (Class 38), Penmanship, Maps, and Drawing by scholars.

This display was a credit to the school, and showed great care on the part of the instructors. The two electric railways, one underground and the other the trolley system, both made by the pupils, were constantly in operation, and excited great admiration for the proficiency of the pupils.

Jones & Kennett—Electric Photography.

Dr. Philip Mills Jones—Fluoroscope, with the exemplification of X-Ray, the apparatus being partly made in the Pavilion. (See also exhibit of G. E. Lamont, Class 30).

This exhibit, made by the Waldeck X-Ray Laboratory, showed the action of the newly-discovered X-Rays of Professor Roentgen, now so widely known. The apparatus was made by the Laboratory under the personal direction of Dr. Philip Mills Jones. The Crooke's tubes used were made by Mr. G. E. Lamont. In spite of many difficulties, the apparatus was in action during the entire time the Fair was open, with the exception of two days. To exhibit the fluorescent screen to so many thousands of people as attended the Fair required that the apparatus should run continuously for about six hours daily, and this was an unusually severe strain. In ordinary operation the time of running the apparatus is only a few seconds or minutes. It was demonstrated to several

thousand people that by means of Professor Roentgen's X-Rays and a fluorescent screen, it is possible to clearly see and examine one's own bones, or the contents of any closed packages, as for instance the coins in a purse. Many people were enabled to see for themselves the condition of their broken arms or hands, and consequently appreciated the value of the X-Ray in surgical diagnosis.

Pacific Electrical Works—Electric Appliances.

The showcase containing electrical apparatus showed the part done by the works. They manufacture dynamos for arc and incandescent lighting, plating, etc., one specialty being sparking dynamos for gas engines. They also make motors for dental work, etc.

C. A. Smith—Model of Electric Flying Machine.

A great deal of attention has been paid by inventors to flying machines lately, and great excitement has been caused by the recent account of a flying machine reported to have been seen hovering over the city, but as yet the rumors have not been verified.

This exhibit never failed of a crowd, and Dr. Smith and those working with him declare that their air-ship has solved the great problem of aerial navigation, and we hope that at the next Fair Dr. Smith will have a working airship on exhibition.

A. Greenbaum—Engraving by Electricity.

A. Grothwell—Insulating Compound (See Class 40).

CLASS No. 30.

SCIENTIFIC APPARATUS, ETC.

Dr. E. Jacobs—Optical Goods and Lense Grinding.

The wearing of glasses seems to be greatly on the increase, and it is important that parties in need of them should deal with opticians of ability, and Dr. Jacobs seems to be a master of the subject.

G. E. Lamont—Scientific Glass Blowing.

The Crooke's tubes used in the X-Ray were blown in the pavilion. (See exhibit of Dr. Philip Mills Jones (Class 29).

Mr. G. E. Lamont's exhibit was of considerable interest, as he is the only manufacturer in his line west of Denver. He is a scientific glass-blower and manufacturer of miniature lamps and Crooke's tubes for X-Ray work. During the Fair Mr. Lamont was in attendance and exhibited the actual steps in the process of making Crooke's tubes. The manual dexterity necessary to form an object so delicate as a vacuum tube can hardly be appreciated by those who have not had the good fortune to see the work done. These tubes are the result of constant work and experiment for many months, and are the best tubes available for the purpose of producing Prof. Roentgen's X-Rays. Mr. Lamont also had on exhibition a large number of incandescent lamp filaments of all sizes and forms, of his own make, which are used in the numerous styles of miniature lamps. In connection with the vacuum tubes and small lamps was exhibited Lamont's Improved Sprengel Mercury Pump, for exhausting bulbs to a high vacuum. It possesses many points of advantage over other styles of Sprengel pumps, and is constructed to contain the highest possible vacuum.

F. T. Keeler—Optical Goods (Class 30). Imitation Stone Jewelry (Class 32).

A well-arranged exhibit, and one which seemed to be well patronized, both for the jewelry and the optical goods.

Joseph C. Sala—Scientific Instruments.

The high reputation enjoyed by the late John Roach for many years has been kept up by his successor, Mr. Sala, and the case of fine instruments displayed was abundant evidence of that fact.

The A. Lietz Co.—Scientific Instruments.

This was a display which attracted the attention of engineers and scientists for the merit of the instruments shown.

Katie Breen—Optical Goods (Class 30). Jewelry (Class 32).

All visitors to the gallery will remember the smiling face and obliging manners of Miss Breen and her assistant, to whom it was never any trouble to show their wares to one at all.

CLASS No. 31.

SURGICAL AND DENTAL IMPLEMENTS AND APPLIANCES.

Chicago Artificial Limb Co.—Artificial Limbs.

These limbs are made with the renowned adjustable slip

safety socket, which does not chafe the most tender stump. This firm also manufactures rubber feet, braces for deformities, elastic stockings, trusses, etc.

Dr. H. G. Young—Display of Dental Work.

This was a display of the highest type of dental work.

CLASS No. 32.

GOLD, SILVER, PLATED WARE, WATCHES, CLOCKS, JEWELRY AND BRONZES.

F. T. Keeler—(See Class 30).

C. P. Heininger—Canes (Class 27). Shell Jewelry and Fancy Work (Class 32). Shells (Class 45).

There were many fine specimens of canes of native woods in this exhibit, besides many novelties in shells and shell goods.

Katie Breen (See Class 30).

S. Sonnenfeld—Lapidary, Precious-Stone Cutting.

The principal work done here was: First, cutting or slitting precious stones—garnets, rubies, emeralds, turquoise, crysoprase, quartz, pebbles, etc.; second, grinding or cutting and polishing into possible shapes for the market, facets and plain cutting. It was surprising to many to learn that such work is done in this city. It formed an instructive lesson as to what can be accomplished by the lapidary's art in changing an ordinary-looking specimen of mineral rock into a brilliant and attractive gem.

CLASS No. 33.

PRINTING.

W. N. Brunt—Fine Printing, Badges, Regalia, Society Cards, Copper-Plate Work, Embossed Work.

A printing press in operation was maintained throughout the Fair. The display of different-colored regalia and badges was varied and brilliant. Mr. Brunt is the pioneer printer of society and fraternal cards for fraternal orders.

- A. M. Robertson—Copper-Plate and Steel-Die Engraving and Printing, Hand-Die Stamping, Illuminating and Embossing, Designing Bookplates and Monograms.

The exhibition of Mr. Robertson was a revelation to many fair admirers of daintily-engraved notepaper. The book-plates, visiting-cards and invitations engraved from steel and copper plates showed that care and fine workmanship will accomplish just as much in San Francisco as in New York. As time goes on society grows more fastidious in its demands, and the production of such work here is a favorable comment on the advance of artistic taste in San Francisco.

- H. S. Crocker Co.—Blank-Book Manufacturing in process, Printing, Lithographing, Copper Plate Engraving, Stamping and Embossing.

The principal exhibit consisted of the manufacturing of blank books. They had some sixteen people at the Fair engaged in this industry. The exhibit was very complete in this regard, as it commenced with the first thing necessary for the construction of a blank book—ruling the paper—and finished with the book bound and ready for delivery or sale. In connection with this department they also exhibited a large variety of work which was produced in their manufacturing departments, consisting of such books as the "Blue and Gold" for the University of California, "The Stanford Quad" for the Leland Stanford, Jr., University, "History of the University of California," "Picturesque Yosemite," and many other fine publications.

An exhibition was also made of copper-plate printing, stamping, embossed work and crests, for cards and fine correspondence stationery, and also a display of engraving, stamping, embossing and crests, all of which was executed at their establishment in this city.

There was also a display of lithographic work in handsome frames, comprising such subjects as pictures of the Crocker Building, California in '49, Crossing the Plains, and a number of other subjects, including notable hotels, watering places and advertising cards.

- H. W. Faust—Maps and Guides of San Francisco.

A good map and guide are useful to travelers as well as to old residents, and these maps and guides were of the best.

- Louis Roesch Co.—Label, Book and Job, and Poster Printing.

The samples of work from this company occupied a large space on the wall of the gallery, and were noticeable from

all parts of the building. They comprised posters of all sizes and descriptions and all shades of color, and showed that the Louis Roesch Co. employs artists with taste besides skilled mechanics.

- Educational Map Manufacturing Co.—Educational Maps.

This most useful help to the study of geography, instead of being a wallmap printed on paper, is on composition blocks of heavy strawboard subdivided into sections, each State out, following the latest surveyed State lines, each block giving the exact shape of each State accurately. The map comes in book form and contains a large amount of statistics relating to the United States, and is especially designed for use in kindergartens and schools.

In taking the map apart and putting it together one learns the exact location of each State, and forms a knowledge that permanently impresses it upon the mind the comparative area of the different States; in other words, the act of taking apart and putting together gives an object lesson in geography of this country that remains thoroughly impressed upon the minds of old and young.

CLASS No. 34.

HAIR WORK, NEEDLE WORK, EMBROIDERY, FANCY WORK, ETC.

[See also list of Cash Awards.]

Through the inauguration of cash awards in this class, a number of exhibits of the finest Fancy Work, Embroideries and Laces that have ever been exhibited in the Mechanics' Pavilion was this year presented for public inspection.

- Mrs. J. C. Tucker—Raised Leather Book Cover.

As a production by an amateur this exhibit attracted universal attention and much favorable criticism. The work was of the old Flemish or German Renaissance.

- Mrs. H. S. Winship—Quilt, Mantel, Lambrequin, Table Covers, Tiedies, etc.

The variety of this exhibit rendered it particularly attractive.

- Mrs. A. Walker—Quilt and Tea Cosey, Sofa Cushion.

Miss B. Sanders—Point Lace, Spanish Work, etc.

This work was very beautiful and of the most artistic character, showing that many patient hours had been spent by the exhibitor in perfecting her work.

Mrs. M. C. Wilbur—Rug.

A unique design of home-made work of this character was shown by this exhibitor.

Mrs. E. Peters—Assorted Needle-Work.

This work differed from the bulk of the exhibits in this class, through its varied and assorted characteristics, and was greatly admired by the lady visitors.

Mrs. T. H. Wood—Point, Honiton and Battenburg Laces.

Beyond a question this exhibit of laces was the most complete and handsome of any exhibit that has been made on this Coast. The character of the work was equal to that of European professionals, and showed in every stitch the care and attention which had been paid in its manufacture. The jurors in this class complimented this exhibit very highly.

Mrs. Kate Pettie—Wax Flowers.

It is unnecessary to state that this exhibit was particularly attractive, as the exhibitor is well known in this city as possessing the greatest of merit in work of this character. Her exhibit this year consisted of two of those most beautiful flowers—the Victoria Regina—and nature was so accurately copied that visitors thronged around the glass cases in their admiration for the artistic work. It is promised that the exhibitor will next year make a much larger and more complete display, covering a larger field in botany than ever before exhibited.

Mrs. H. S. Moore—Crazy Quilt.

This exhibit was one of the handsomest of its kind.

Mrs. A. M. Vetterli—Knit Spread.

By all competent judges this exhibit was pronounced one of the most intricate and complete displays of fancy work in that character which has ever been brought to their attention.

Mrs. Wm. Clarke—Farmer's Wreath.

One of those beautiful but old-fashioned pieces of fancy work which our great grandmothers spent their leisure hours in manufacturing in olden times.

Mrs. E. Vestey—Sea Mosses, Botanical Specimens, Skeletonized Leaves, Point Lace.

This exhibit occupied forty linear feet outside of the Art Gallery. No one could fail to observe the many and exceedingly attractive features which were placed before them. The exhibitor has a world-wide fame in this line, having graduated in Europe, and receiving the highest encomiums of praise for her work in that country before emigrating to our Golden State. One attractive feature of her exhibit was the very artistic souvenir composed mainly of California botanical specimens. Those competent to judge recommend this exhibit as being one of the features of the Twenty-ninth Industrial Exposition.

Mrs. J. M. Muller—Knit Curtain.

This curtain showed hours of care and attention paid to its manufacture.

Mrs. S. E. Hewitt—Paper Work.

Consisting of a showcase containing some of the handsomest paper flowers that could be presented to view.

Miss Josie Stephens—Silk Quilt.

This quilt was one of the finest that has ever been displayed in the pavilion, and attracted a great deal of attention, being heavily embroidered with chenille work of the most artistic designs and blending of the most harmonious colors.

Miss Kendrick—Crazy Quilt.

The many and varied stitches which the exhibitor had designed and worked into this quilt in conjunction with the very artistic blending of the different shades rendered this quite an object of universal admiration by not only lady visitors but gentlemen as well.

Mrs. J. H. Gilmore—Embroidered and Lace Work.

As an exhibit of Fancy Work this display was the most complete in the Exposition. It consisted of Table, Tea, Tray and Lunch Cloths on linen and silk, both painted and embroidered. The work occupied an entire showcase in the Art Gallery. The time and attention which had been devoted to this work could only be partially appreciated.

Mrs. De Graff—Baby Dress.

A very attractive piece of needle-work.

Mrs. M. J. Simpson—Hand-Made Night Dresses and Infants' Dresses.

It is necessary to see work of this kind in order to appreciate it.

ciate it, and even then it is almost beyond belief that such work is made by an amateur. One almost imagines it is the work of some of the German mediaeval ages.

Ruth L. Terpenning—Sofa Pillow.

Mrs. Caroline D. Ricker—A very artistic exhibit.

Mrs. B. F. Klock—Farmer's Wreath.

Differing materially from exhibits of this kind, it attracted a great deal of attention from its unique construction.

Mrs. P. J. Bush—Embroidered Linen Frames, Lace Work, etc.

This exhibit was made in conjunction with that of the Carlson, Currier & Co., and showed the possibilities of the embroidery silk, which is manufactured by the latter. This exhibit demands the highest praise, being complete in every character, and it is to be hoped that our society ladies will follow the lead made by Mrs. Bush and devote more time and attention to work of this sort.

CLASS No. 35.

PAINTING IN OIL AND WATER COLORS.

(See Catalogue of Art Gallery and also List of cash awards.)

CLASS No. 36.

DECORATIVE ARTS.

(See also catalogue of Art Gallery, List of cash awards and List of premium awards.)

CLASS No. 37.

SCULPTURE, STATUARY AND CARVING.

[See also Catalogue of Art Gallery and list of cash awards.]

P. Grandmougin—Sculpture and Modeling in Clay.

It was an interesting sight to watch this artist at work fashioning statues from living models.

CLASS No. 38.

ENGRAVINGS, ETCHINGS, PAINTS, PENMANSHIP, ETC.

Mrs. J. A. Marsh—Carved Picture (See also Class 18).

Miss E. S. Ryder—Landscape Gardening Drawings.

Mrs. Ch. de St. Hubert—Oil Painting on Velvet.

Koasi S. Matsushita—Japanese Artist.

Heald's Business College (See Class 29).

Vander Naillen's School of Engineering (See Class 29).

O'Hara & Livermore—Applied Arts, Wood Carvings, Burnt and Leather Work, Burnt Wood Work. (See Art Catalogue and also Cash Awards.)

E. Foucher—Tapestry Painting.

Geo. F. Atkinson—Wood Carving (Forest Scene) (See Class 18).

Golden State Amateur Press Association—Drawings and Amateur Papers.

Joseph A. Hecht—Short Hand System.

This system is claimed by the exhibitor, who is also its inventor, to be much simpler and better than the ordinary system of short hand. It has but ten fundamental letters, from which it derives its name of Hecht's Ten Letter Short Hand.

Thas. M. Plum & Co.—Wood Carving (See Class 18).

Duman School—Drawings, etc.

These drawings covered a variety of subjects and showed that we have many pupils in our public schools who have learnt the use of pen and pencil.

W. M. Haigo—Japanese Artist.

Mrs. L. D. Staples—Tapestry Painting.

CLASS No. 39.

PHOTOGRAPHY.

Theo. C. Marceau—Photographs.

Colonel Marceau's exhibit showed that he is still as careful and painstaking as he has always been in producing fine

photographs. The Bas Reliefs shown were especially commendable.

J. Fowzer—Photographs.

Mr. Fowzer made a fine display of photographic art, which received many flattering eulogiums from admiring visitors.

F. H. Bushnell—Photographs.

Visitors to the gallery were attracted by the ingenious and artistically designed background of the exhibit, being a remarkable departure from the general drapery in the Art Gallery. The enlarged portraits, consisting of life-size Water Colors, Sepias and Crayons, together with his varied photographic display, presented a sight seldom seen or equaled.

Miss E. Frauenholz—Amateur Photography.

This was an exhibition of various views, showing extremely clever work on the part of the exhibitor, as well as a highly trained sense of artistic perception.

California Camera Club—General Combined Display of Amateur Photography.

The California Camera Club has established a name for itself among the Amateur Photographic Clubs of the world, and their exhibition of views, all taken by their own members, was a well appreciated addition to the Art Gallery.

W. L. Watts—Display of Cylindrographs and Other Studies.

These views of the Oil districts of California were an interesting contribution, which gave one an idea of the extent of these districts in our State.

The Cylindrographic views were a great novelty.

CLASS No. 40.

CHEMICAL AND PHARMACEUTICAL PRODUCTS.

Bibo, Newman & Ikenberg—(Class 40)—Fruits, Syrups and Juices, Flavoring Extracts.

(Class 41)—Mince Meat and Jellied Fruits.

(Class 46)—Jellies, Jams and Preserves, Marmalade in glass. (Home Made.)

The firm of Messrs. Bibo, Newman & Ikenberg exhibited home-made Jellies, Jams, Preserves, Jellied Fruits, Fruit Syrups, Fruit Juices, Mince Meat and Flavoring Extracts (all put up in glass) on the main floor of the Pavilion, which at-

tracted great and universal attention during the exhibition, which was a high tribute to the enterprise of the aforementioned firm in placing before an appreciative public a high grade of pure and unadulterated food products, the equal of which is not to be found in any other part of the world, and shows what careful and scientific processing can make out of the choice fruits of this glorious State of California. Samples were freely given during the exhibition to all who desired to taste them. An ever increasing demand will soon necessitate the increasing of the plant for their manufacture, as they are now being shipped to all parts of the world.

A visit to the establishment of the enterprising firm of Messrs. Bibo, Newman & Ikenberg at the S. W. Cor. of Polk and California street, where all goods exhibited are manufactured, is time well spent.

Veronica Mineral Water Co.—Mineral Water (medicinal).

This well-known mineral water was freely given out to visitors. The booth was arranged to represent the famous Santa Barbara Mission.

Paul Rieger & Co.—Perfumery, Flavoring Extracts, and Oil of Lemon. (Not entered for competition.)

There were many of the celebrated perfumes prepared by this firm here, which met with a large sale.

S. P. Blumenberg—Dr. Gordon's Chocolate Emulsion.

Tillman & Bendel—Class 40—Flavoring Extracts.

Class 41—Trophy Baking Powder, Coffee, Aromatic Spices.

Class 46—Exhibit of Tillmann Canning Co., Tillmann & Bendel, proprietors, Tomato Catsup, Canned Fruits, Marmalade, Jellies, Jams, Preserves.

Stretching across the main aisle between the band stand and the western wall of the Pavilion, standing out conspicuously among a wilderness of exhibits, there was a large building, with the upper structure of Egyptian design, with two tall obelisks towering towards the rafters, and there was in large letters, of peculiar style, the single and therefore mysterious word "Trophy." On entering one noticed on the cornice to the right and left of the entrance two large models of the Sphinx, which served to deepen the mystery. For a moment passing up the aisle, the music platform hides the exhibit, but passing around one suddenly came upon what is certainly the sensation of the Fair. You stand before a large Egyptian structure built on each side and over the main aisle, which divides it into two parts. Quaint

Egyptian figures cover the pillars, but you don't stop to look at them; the light and life inside the big booth (or pavilion rather, for it occupies a space 35x70 feet) is what interests one. A thousand or more incandescent lights produce an effect that shames the brightest sunlight. But what attracts the eye most, and solves the mystery of the word "Trophy," are hundreds of what appear to be transparent illuminated cans, hanging as a frieze to elaborate draperies hung from the center of each half of the booth towards the corners. Against the light inside the can (or whatever it is) appears in endless repetition the legend, "Trophy Baking Powder." This was the exhibit of Tillmann & Bendel, the largest and most enterprising grocery house on the Coast. Here the visitors were invited to try "Trophy" biscuit, baked on the spot. They learnt, that, after all, baking powder is an important household necessity, and that even our precious health often depends upon its absolute purity. They were shown how to detect heavy adulteration in well-known Eastern brands of Baking Powder. They found that all around the entire booth were comfortable cushioned seats to which the public were invited, by such cards as "Make yourself at home." "The seats are for you." On the opposite side they found that while "Trophy" ruled overhead, the floor space was used for making and sampling a delicious coffee, cups of which were handed out as fast as they could be drawn from the large steaming urn. Tillmann's fine spices and extracts shared this part of the booth with "Sultan" Coffee.

The distinctive up-to-date feature of this exhibit was the lavish generosity shown to the visitors. There was so much room to walk around, so much comfort provided. Another striking feature was that one did not see stocks of various goods piled up in all sorts of shapes for general effect, but rather what we would call in grand simplicity, directing attention in a rational, business-like and impressive way to the best products of the firm's big mill on Battery street, namely, Trophy Baking Powder, Sultan Coffee, Aromatic Spices and Tillmann's Flavoring Extracts.

Tillmann & Bendel have demonstrated beyond question that aside from being the greatest general grocery house on the Coast, they are ahead among the leading manufacturers; and as up to date and progressive as any house on earth.

A little back of the big booth above described was the attractive exhibit of the Tillmann Canning Co., of Oakland, a corporation controlled by Tillmann & Bendel. The special

feature of this exhibit was fine canned fruit, Tillmann's Marmalade and Golden Tomato Catsup. A special gold medal was awarded to Tillmann & Bendel.

William Lambert—H. & L. Axle Grease.

This favorite Axle Grease is as popular as ever after its many successful years of existence.

C. M. Hunter—Absorene Cleaning Compound.

A very meritorious article for cleaning Wall Paper.

Fishbeck & Gloomt—General display of Soap, Toilet Soap, Laundry Soap.

It is difficult to do justice to such an exhibit as this. Situated as it was in probably the most prominent place in the Pavilion, it was a constant source of admiration to all beholders. The soap was designed in the form of a temple, the floor of which was a tessellated pavement of different colors of soap arranged in such a manner as to make one believe that the floor was of inlaid stone work. From the four corners rose four graceful columns built of white soap, upon which the roof rested. The soap ornamentation of the roof was cut into various designs. The letters "Queen Lily Soap" were inlaid in green on the sides of the roof and illuminated by electricity. The whole general effect of the exhibit was striking, and for beauty and artistic skill has never been surpassed.

Madame L. Marchand—Hair and Complexion Preparations, Toilet Articles.

The toilet preparations of Madame Marchand have the indorsement of many leading chemists. She has made a thorough study of chemistry, and judging from the popularity of her exhibit the results of her study were well appreciated. She is the proprietor and manufacturer of the celebrated Antoinette Hair and Complexion Preparations, as well as other valuable toilet preparations.

E. W. Bennett—Metal Polish.

California Fire Works Co.—Fire works.

The California Fire Works Company made a handsome and well arranged display of the various designs and styles of fire works made by them. The fire works used on the opening night of the Fair were supplied by them.

A. Grothwell—Pile Covering (Class 40).

Insulating Compound (Class 29).

This exhibit of Mogul Paint illustrated the value of a good article of Home manufacture and the various uses to which

it can be put. Mogul is a preservative, being rust and acid proof, and also a thorough insulator for electrical uses.

Standard Soap Co.—Candles, Glycerine, Soaps and Perfumery.

Taking the display as a whole it was creditable to the parties making it. Their goods were displayed just as they are sold to the trade, and were very artistically arranged, making a sightly display.

B. F. Wellington—Egg Food.

This well-known and widely used product was well displayed.

W. P. Fuller & Co.—Paints, Oils and White Lead (See Class 13).

John Horstmann—Lavarine.

Lavarine is a washing compound which can be used for cleansing purposes without injury whatever.

M. Holje—Glue.

Mr. Holje has been in the glue business in this city for twenty years, and during that time has outlived ten competitors. He takes great pride in his business, and is fully up to the times, and has all the late improved machinery. All those who saw the little red booth of the California Glue Works at the Fair are fully convinced of the quality and different grades and colors of glues he manufactures. Mr. Holje now manufactures a fine quality of White Glue and Gelatine Glue. Both these grades of glue are superior to that imported from the East, and from this out he hopes to supply the trade on this Coast with all grades of White Glue, Cabinet Glue and Gelatine Glue, and he cordially invites the trade to patronize Home Industry.

H. P. Peterson—Toilet Soap.

The very attractive and unique display of Toilet and Fine Castile Soaps exhibited by H. P. Peterson, the well-known and popular fancy soap manufacturer of 1204-6 Vermont street, S. F., was very much admired by all. The special feature of the display being the unexcelled and "Crystalline" Toilet Soap made exclusively from pure Vegetable Oil and having a reputation of many years' standing for its purity and excellence of quality.

Aetna Mineral Water Co.—Mineral Water.

Paraffine Paint Co.—P. & B. Roofing, Paint, Pile Covering, etc.

In the booth of the Paraffine Paint Company was exhibited P. & B. Building Paper, which has the distinction of being

the only building paper manufactured west of Chicago. All the materials included in its production are of this Coast, and are of higher class than those used in Eastern papers.

The paper has great strength and is water-proof and odorless. It is used in the construction of frame houses to exclude draughts and moisture, as an insulator in refrigerating plants, as a fruit drying medium, and as a tree protector.

Among the other products shown were P. & B. Roofing, P. & B. Teredo Proof Pile Covering, P. & B. Preservative Paints and Insulating Compound.

Tuscan Springs, W. J. O'Neil, Agent—Mineral Water and Salts.

Tuscan Springs are situated nine miles northeast of Red Bluff, Cal. The different Springs number over 50, and samples of water from many of them were exhibited. Their curative powers are well known.

Lytton Springs Sanitarium—Geyser Soda and California Seltzer.

This exhibit of the Mineral Water Department of the Lytton Springs Sanitarium Co. deserved special mention. The delicious taste of the California Seltzer was well appreciated. For those troubled with liver and stomach troubles it is invaluable. For diabetes it rivals the famous German Springs at Carlsbad. The Geyser Soda is much used for indigestion.

Fred. R. Cook—Belt Grease (See Class 24).

Greenbaum & Co.—Perfumery.

Much of this firm's perfumery was sold during the Fair, especially the unique fans with small bolts of perfumery attached.

Robinson Chemical Company—Harness Dressing.

Willson Bros.—Wall Paper Cleaning Compound.

It was a pleasing surprise to many housekeepers to find that with this compound they could clean their walls and save the cost of re-papering.

Newton Bros.—Chewing Gum.

The Chewing Gum made by Newton Bros. was sold to numerous buyers, and met with a ready sale on account of its superiority.

Santa Barbara Mineral Co.—Bythinia Water.

This exhibit was on the main floor near Machinery Hall. It was tastefully ornamented with foliage, and presented a

pleasing appearance. A large amount of the water was given away to an ever waiting crowd.

Boardman, Kenne & Co.—Perfumery, Toilet Water, Sachet and Complexion Powders.

The popularity and merit of these preparations was evident from the large business done by this firm.

Waller Bros.—Toilet Soap, Perfumery and Face, Sachet, Baby, Nail and Tooth Powders, Face Cream, Almond Meal and Shampoo.

This tastefully arranged booth showed its wares in pleasing shape, and was much admired.

G. A. Herzog—Process of Graining from Natural Woods.

This was a most interesting process, which was always watched by an eager and admiring crowd. The process is as follows: The wood from which the pattern is to be taken is first painted and the paint then scraped off, leaving the paint only in the pores. A composition roller of peculiar construction, made by a secret process, is then run over the wood from which it takes up the impression from the pores. The roller is then run over paper, iron or glass, etc., on which the impression from the rollers is reproduced, giving the effect of graining. Many beautiful specimens of this work were exhibited.

L. H. Burd—Soap.

A. Marchand—Excelsior Liquid Gold Paint.

The use of this Paint was well illustrated by the various statues and other articles on exhibition, all of which were made beautiful by its use.

CLASS No. 41.

GROCERIES, MEATS, FLOUR, ETC.

Bibo, Newman & Ikenberg—Mince Meat and Jellied Fruits (See Class 40).

Chas. G. Sparrowe—Candy, Ice Cream, Soda Water and Pop Corn.

The booths managed by Mr. Sparrowe were deservedly popular every day and evening.

California Italian Paste Co.—Macaroni, Vermicelli, etc.

The manufacture of Macaroni and Vermicelli here is an evidence that even in goods which are always supposed to be peculiarly the product of certain countries, we can hold our own.

Our Mother's Milling Co.—Our Mother's Mush, Our Mother's Hot Cake Meal.

This delicious food is appreciated by all, especially by children.

American Condensed Milk Co.—Evaporated Cream, Condensed Milk.

A valuable addition to our industries is this company. Purity is an essential in these goods, and the high reputation enjoyed by this company is abundant guarantee that their products can be relied upon.

Tillmann & Bendel—Trophy Baking Powder, Coffee, Aromatic Spices (See Class 40).

Union Fish Co.—Pacific Codfish.

The Union Fish Company made a fine display of Pacific Coast Codfish, showing not only the different cuts and styles of curing commonly seen in the market, but also many fancy cuts and brands which they pack for their Chicago customers, where they have a large trade with all the wholesale grocery houses.

They exhibited a letter from the United States Commission of Fish and Fisheries at Washington, D. C., stating that "The Codfish of the Pacific is identical in all respects with Codfish caught in Atlantic waters," which statement was amply verified by the goods exhibited.

A striking feature of this exhibit was a fishing dory completely rigged with oars, kid-boards, hooks and lines, anchor and windlass, gaff and pew, in fact, complete and ready for hand-lining as practiced in the Bering and Okhotsk Seas by the fishermen who man the vessels belonging to this company.

Every style of pack and cure is put up by this company, from the whole fish with the jacket on, to desiccated, which is boned and ground, all ready to be mixed up for Codfish balls. These, together with strips, Middles, Blocks, Kench cured or Dun Fish—Codfish for home consumption, for Eastern shipment and for export to China, to Australia, to Central and South America and to the Islands, each of which requires something different from any other, were all shown by the Union Fish Company.

L. G. Sresovich & Co.—Shredded, Desiccated and Stripped Cocoanut.

A number of curiously carved cocoanut heads, representing human heads, were a feature of this exhibit.

L. Becker & Co.—Digestive Rusks.

These Rusks of the best California flour manufactured by a secret process, are toasted all through, and are extremely palatable, especially for invalids and children. They are also excellent adjuncts to wine, tea, coffee, milk, chocolate, and as they keep fresh and good for a long time they are specially recommended for journeys.

Chino Valley Beet Sugar Co.—Beet Sugar.

This newly established industry is one on which the future prosperity of the State depends, and too much cannot be done to encourage it.

Western Meat Co.—Packing House Products.

This company aims to manufacture only the very finest grade of canned goods, and they claim their Golden Gate Brand to be superior to most Eastern brands. They operate on an extensive scale, selling all their goods under their own label. Their lard and smoked goods are exceptionally fine, being produced only from grain-fed hogs, cured in a superior manner.

Mrs. E. P. Neale—Hygienic Coffee.

Stockton Milling Co.—Crown Flour.

There was here displayed a tall cone-shaped structure of sacks filled with flour, making a novel and striking appearance.

Pacific Coast Syrup Co.—Maple Syrup, Tea Garden Drips.

"Tea Garden Drips" are absolutely pure syrup, made from sugar cane direct with no particle of glucose in their manufacture. Toboggan Maple Syrup is made of selected maple sugar and water only. The sugar comes from Vermont to this company in carload lots, and the highest grade only is selected.

John H. Spohn—Aunt Jemima's Pancake Flour.

Aunt Jemima's smiling ebony face was always greeted with a large crowd. This was a popular exhibit.

C. S. Laumeister—Pettijohn's Breakfast Gem.

This very attractive booth, facing the music stand, was tastefully arranged. The booth was of pure white, trimmed

with delicate green, making a beautiful effect. The sampler given out were eagerly sought for.

Standard Biscuit Co.—Fine Display of Crackers, Cakes and Fancy Biscuits.

One of the most noticeable features of the recent Fair was the exhibit of the Standard Biscuit Company. This firm is comprised of young men only, and they have shown a great deal of enterprise.

The Standard Biscuit Company started in business on the first day of July, 1896, and at the opening of the Fair had been in business a little over a month.

The large variety of Cakes and Biscuits of every description that they exhibited showed plainly what enterprise can do.

They displayed a large variety of Cakes that are an entirely new article on the Coast, and the demand which resulted from their having placed them in their exhibit at the Mechanics' Fair shows plainly that the people are always anxious for something new.

The Jurors and all connected with the Institute took quite an interest in this exhibit, and all were very much surprised at the wonderful tact this young concern showed in the display of their goods.

American Biscuit Co.—Best Crackers, Cakes and Fancy Biscuits.

As manufacturers of every variety of Biscuits, Crackers, Cake and Ship Bread, this company called attention to the hundreds of different kinds displayed in their show cases, many beautifully designed and originated by this company. This Biscuit factory uses only the choicest ingredients. Their factory is the largest on the Coast.

Sperry Flour Co.—Germea (Class 41).

Wheat in Sheaf (Class 46).

Germea is a breakfast food made by the Sperry Flour Company from specially selected California wheat. It was prominently displayed in a booth representing a log hut with sheafs of wheat artistically displayed around it, making on the whole a very pleasing impression.

CLASS No. 42.

VITICULTURAL PRODUCTS.

Italian Swiss Agricultural Colony—California Wines.

The wine exhibit of the Italian Swiss Agricultural Colony, which has its vineyards at Asti, Sonoma County, and at Ma-

dera, Madera County, was very interesting, in that its wines have received the highest commendation from the household of his Royal Majesty, the King of Italy, and from the Royal School of Viticulture and Oenology, of Conegliano, Italy, in which they conclude their very critical report in the following words:

"From all that has been said above, we come to the conclusion that our countrymen deserve a great praise for having extended the cultivation of vines on such a large scale and in such a short time, and for giving foundation to such a large oenologic establishment, which for its vastity, for the good disposition of the cellars, and the excellent materials used, offers a type that can serve as an example to the greatest wine makers even on this European side of the Atlantic."

This report is of great interest to the viticultural industry of the State of California, as showing that connoisseurs of wines of the most fastidious tastes can be supplied with as good an article of wine from the State of California as they can obtain from the old cellars of Europe.

Inasmuch as the State of California is the only State in the Union which can produce these fine wines, when the American people will become educated to the use of wine at their tables, this State will be able to support ten million inhabitants engaged in the viticultural industry alone.

Gundlach-Bundschu Wine Co.—California Wines.

The California wine industry was typically represented by several handsome exhibits, among which the highly artistic display of the Gundlach-Bundschu Wine Company—J. Gundlach & Co.—evidently stood in the front rank. The complicated arrangements of the exhibit were all perfect and completed at the hour of opening. The exhibit covered a ground space of about 60x35, taking in the center of the western wall of the gallery. The background, about 50 feet high, represented a lofty, picturesque mountain vineyard, from which protruded in realistic imitation a wonderful cove, into which was arched, between rocks and boulders, shrubs and ferns, the romantic entrance to an ideal country wine cellar. Huge oak casks were visible, set off in beautiful harmony by the simple loveliness of a rustic trellised arbor in front, covered with the foliage of vine leaves and beautiful clusters of luscious grapes. Great care was taken in every detail, and a variety of cellar and vineyard implements were artistically arranged with wonderful effect. Over the advanced portion of the sloping mountain side adjoining the

cellar a natural waterfall, 25 feet high, rushed down like a beautiful mountain stream, disappearing in a covered grotto between a variety of ferns, shrubs and creeping vines—all this lending an additional charm to this beautiful realm of Bacchus.

Both sides of the rocky construction, where the mountain receded, were used as reception rooms and for the exhibition of Wines and Brandy in bottles. They were artistically displayed between elegant oak casks and objects of interest to viticulture and the wine trade. A life size statue of Bacchus—the trade-mark of the firm—in white and gold, stood out boldly and domineeringly from the dark maroon, velvety background, against which it was placed, and formed a handsome contrast to the realistic representation of the wine industry in the cave of Bacchus. Thousands of elegant bottles, appropriately arranged, surrounded the different positions, and the entire panorama, as seen from any point, formed a most elaborate and harmonious scene, woven by artistic skill and refinement. This was especially the case when all the electric lights and colored globes lent additional charms in the evening, and from a distance this exhibit appeared like a beautiful panorama from Fairy Land.

Charles Bundschu, President of the Gundlach-Bundschu Wine Co., laid out the distinctive parts of the exhibit, and E. A. Otto, the artist, deserves great praise for its characteristic execution. On the occasion of Governor Budd and Staff's visit to the exhibit the place was further ornamented by an addition of flags and palms and a handsome device, "Welcome to the Governor," gave greeting to the honored guest.

Coope & Pippy—California Wines.

This display reflects credit on its makers. Particular attention should be called to the delicious Grey Riesling (Chauche Gris) exhibited.

California Condensed Juice Company—Sanitas Condensed Unfermented Grape Juice.

The exhibit of Sanitas Grape Juice attracted the attention of visitors from all parts of the State as well as Eastern people. Thousands sampled the product daily. Sanitas is the pure condensed juice of choicest grapes, and is used as a pleasant drink, as an aid to digestion, exceptionally good in all wasting diseases, dyspepsia, biliousness and nervous troubles, also as food and drink for invalids, weak and puny

children. Physicians speak in the highest terms of Sanitas, many of whom use it exclusively in cases of consumption. The four varieties now on the market are Zinfandel and Muscatel (tart grapes), Malvoise and Sweet Muscat (sweet grapes). Sanitas takes the place of all reacting stimulants, being far superior in point of food and tonic effect. The factory is located at Los Gatos, Santa Clara County, Cal., from where the product is shipped to many parts of the world by the California Condensed Juice Company.

St. Hubert Vineyard Co., and St. Hubert Tonic Port Co.—California Wines and Tonic Port.

The wines exhibited were all of the St. Hubert Brand, were "par excellence," and the product of vines imported from Europe. The St. Hubert Tonic Port is the product of a fine crop of wine very carefully made and from a ferruginous soil. There was also Brandy, Sauterne, Claret and other excellent wines exhibited.

P. C. Rossi—California Vermouth.

This is made of pure California wines and aromatic herbs, on the same basis and style as the Italian Vermouth. Mr. Rossi has been manufacturing it for 15 years, and has received awards wherever and whenever exhibited.

Wetmore Bowen Co.—Cresta Blanca Bottle Washer (Class 5).

California Wines (Class 42).

Olive Oil (Class 46).

The wines of this company are world-renowned.

They were displayed in a booth whose attractive decorations were further increased by the large sign of corks artistically arranged. There was a constant demand for the souvenirs, consisting of various colored autumn leaves with the name of the firm printed thereon.

Harris, Kingston & Co.—Champagne by Artificial Process.

This Champagne, exhibited with the St. Hubert Vineyard Co., was highly commended.

CLASS No. 43.

FERMENTED HOP AND MALT PRODUCTS.

Fredericksburg Bottling Co.—Beers.

This display of Lager Beer, Culmbacher and Pilsener was near the band stand, and drew the gaze of all by its unique

and tasty arrangement. A large quantity of various samples of Fredericksburg Beer was exhibited.

National Brewing Co.—Beer.

This exhibit was arranged in the form of a house with National Beer placed all around the sides. It was constantly filled with admirers of the beer and of the exhibit.

CLASS No. 44.

TOBACCO.

University of California—Tobacco.

Following is a list of the various kinds of Tobacco raised on the grounds of the Experiment Station, Agricultural Department of the State University, which were exhibited:

Varieties, crop 1895. Zimmer's Spanish Leaf—14 inches, 4½ inches width. A cigar tobacco of fine texture and yields very well.

Harby's Turkish Leaf—14 inches long, 4½ inches wide. Cigar leaf tobacco of fine flavor and prolific.

East Hartford (a Connecticut seed leaf)—15 inches long, cigar leaf, string leaf for wrappers, width 5½ inches.

Remedios—A Havana cigar tobacco of fine flavor, length of leaf 11 inches, width 3½ inches.

Vuelta de Abajo—A Havana cigar tobacco, length of leaf 14 inches, width 5½ inches, good flavor.

Improved White Burley—A common tobacco, leaf 14 inches long, width 4 inches.

Little Dutch—Length 16 inches, width 3½ inches. Cigar leaf, coarse in this climate.

Brazilian—Length 16 inches, width 4½ inches.

Pumella—Length 16 inches, width 4½ inches.

Comstock Spanish—Length 14 inches, width 4½ inches.

Pennsylvania Seed Leaf—Length of leaf 22 inches, width 7 inches; for cigar wrappers.

Persian Rose—Length of leaf 22 inches, width 10 inches, of fine, silky texture.

Little Dutch—Length of leaf 24 inches, width 10 inches.

Zimmer's Spanish—Length of leaf 19 inches, width 9 inches.

Connecticut Seed Leaf—Length of leaf 20 inches, width 6 inches.

Vuelta de Abajo—Length 14 inches, width 5 inches.
 Sumatra—Length 12 inches, width 5 inches.
 Remedios—Length 23 inches, width 8 inches.
 Partidas—Length 16 inches, width 8½ inches.
 Imported Havana—Length 20 inches, width 8½ inches.
 All the above are cigar varieties.
 Improved White Burley—Length of leaf 18 inches, width 6 inches; a common tobacco.

All these varieties do not come up to the standard of imported Havana or function leaf, still there is a field for raising tobacco in California. For information in regard to the culture and curing, address

Agricultural Experiment Station, University of California,
 E. W. Hilgard, Director.

A great change has taken place in the curing of Tobacco. Formerly log fires were used in barns to cure the Tobacco, which gave a bad flavor to the leaf. Now flues are used, and in some places the Tobacco subjected to a heat from 90 to 1.5 degrees of Fahrenheit, which cures the Tobacco quickly.

R. Kuerzel—Cigars and manufacturing same.

This was another working exhibit which never failed to attract. A number of operatives were always at work making cigars, which were easily disposed of on account of their superior flavor.

CLASS No. 45.

GEOLOGY, MINERALOGY, ZOOLOGY, BOTANY, ETC.

Mill Valley Mineral Spring Co.—Mud Bricks for Bathing Purposes.

A novel exhibit and, as far as we know, the first of its kind in the United States, was that of the Mill Valley Mineral Spring Co.

A mineral deposit was exhibited, which is to be used for mud-baths (whose efficacy was well known to the Romans 2,000 years ago). A further use for this material was found in its application for poultices. It has been used with good results in cases of rheumatism, neuralgia, sciatica and kindred troubles. It was exhibited in the shape of bricks, and also as heated mud, showing how the application is made.

Pittsburg Coal Co., Chas. R. Allen, Agent—Coal.

This is a Coal from California.

Pacific Coast Borax Co.—Borax.

The exhibit of the Pacific Coast Borax Company possessed three points of interest:

First—Borax is distinctly a California product, this State and Nevada being the only States of the Union where it is found in paying quantities. Nine-tenths of the present supply comes from California.

Borax is a Mineral product, found in the "waste places of the desert," chiefly Inyo and San Bernardino Counties. It exists both as a surface incrustation, or exudation, from marshes and beds of former lakes, and as an ore in the rocky formation of mountains. Wherever observed, it forms in crystals, often of great beauty. The mines are supposed to be inexhaustible.

Second—The production of Borax is not simply a mining, but manufacturing proposition as well, and San Franciscans are interested in the fact that this important industry is carried on at Alameda, where is located the most extensive Borax refinery in the world.

Third—As an exhibit, the display evoked favorable comment, by reason of its unpretending and tasteful character—greatly in harmony with the beauty and purity of the article itself. It embodied a delightful cave or booth, formed of the glistening crystals as they occur in production, tastefully surrounded by Palm, Bamboo and other foliage from the grounds of the President, Mr. F. M. Smith, of Oakland.

The purity of Borax as a mineral product and its innocence and excellence as a household labor-saving staple explain the wonderful increase in consumption. During the 30 years in which it has been produced in California, the output has advanced from 200 to 6,000 tons per annum, while the wholesale price has fallen from 35 cents to 5 cents per pound.

C. P. Heininger & Co.—Shells (See Class 32).

California Fish Commission—Fresh Water Fish.

The exhibit of the Fresh Water Food Fishes of California made under the auspices of the State Fish Commission was large, varied and attractive. The Institute built three additional tanks and a salmon hatchery, and there were shown Trout, Bass, Pickerel, etc. The Salmon hatchery, where all stages of development from the egg to the living fish were seen, was watched with interest by all.

CLASS No. 46.

FARM PRODUCTS.

Bibo, Newman & Ikenberg—Jellies, Jams and Preserves (See Class 40).

Tillmann & Bendel Canning Co., Tillmann & Bendel, Proprietors—
Tomato Catsup, Jellies, Jams, Canned Fruits, Marmalade, etc.
(See Class 40).

Pleasanton Hop Co.—Hops.

The Hop industry is a prominent one on this Coast. This exhibit showed hops in their commercial shape, the exhibit being draped with growing hop vines.

Dairymen's Union—Eggs, Butter and Cheese.

The principal feature of the exhibit was that the tubs exhibited were manufactured on the Pacific Coast, as well as all other articles. The cheese which was exhibited was made under the Cheddar process, and was in every way equal to the stocks being imported from the East. This process has been tried upon this Coast at several different factories, but never successfully until the cheese manufactured as exhibited by them in the exhibit in question. One cheese was the largest ever exhibited on the Coast, made especially for the Fair and weighing over 650 pounds. All the butters exhibited were made by the leading creameries on the Coast, and we dare say would stand second to none in the United States.

The principal idea of having this exhibit was to show to the many Eastern visitors that California is advancing in this industry very rapidly, and further convince the average consumer in California that stock of as good quality could be manufactured upon this Coast as is being imported from other sections.

Saratoga Packing Co.—Prunes.

This exhibit consisted of the best flavored and finest Santa Clara Valley fruit, packed in fancy 25 and 5-lb boxes and 5-lb drums, the grade being burnt in and the orchard, count and packer's name traceable by private marks. This quality, neatness and system has earned many awards for Imperial Brand, by which name their pack is designated.

Sperry Flour Co.—Wheat in Sheaf (See Class 41).

John Loeffler—Pickles, Preserves, Marmalade, Jellies, Sauces, Catsups, Mustard, Olives, Vinegar, Mince Meat.

One of the most artistic and unique exhibits at the Fair was that made by Mr. John Loeffler, proprietor of the South End Pickle and Preserve Works, 422 Fifth street, San Francisco. For over ten years this concern has maintained a high standard of excellence for its Pickles, Catsup, Preserves, Jellies, etc. All the goods put up are strictly first-class home products, and such a reputation has the name of John Loeffler made by his persistent and conscientious efforts that to-day the goods of the South End Pickle and Preserve Works are recognized both at home and abroad for purity and quality, and of such excellence that any one may be proud to acknowledge the existence of such an establishment in our midst, and we look forward for it to attain greater results.

Wetmore Bowen Co.—Olive Oil (See Class 42).

CLASS No. 47.

UNCLASSIFIED EXHIBITS.

I. X. L. Tamale Co.—I. X. L. Tamales.

The I. X. L. Tamale Co. conducted the restaurant in the Pavilion, and in addition had a Tamale factory in full operation, where deft fingered Spaniards, clothed in spotless white, made Tamales. The cleanliness with which this was conducted was enough to give one an appetite for the Tamales.

Manufacturers' and Producers' Association of California—Literature and Booth.

Valuable work has been done by this Association in educating the public to use our Home products. At their booth handsome badges were distributed to the thousands of signers of the pledge to patronize Home Industries. The Fair this year was largely assisted by this Association making the display of Home products a success.

The following resolutions unanimously adopted by the Trustees of the Institute were presented to the Manufacturers' and Producers' Association at the close of the Fair:

San Francisco, November 12th, 1896.

To the President and Board of Directors of the Manufacturers' and Producers' Association—Gentlemen: I have the

honor to inform you that by unanimous resolution of the Board of Trustees of the Mechanics' Institute, I have been instructed to convey to your Association the thanks of the Mechanics' Institute for the able assistance rendered by your Association, which did so much to aid the success of the recent Home Products Exhibition, held in the Mechanics' Pavilion, and to express particularly the thanks and appreciation of the Mechanics' Institute for the able assistance of your manager, Mr. S. H. Tacy. Yours respectfully,

ERNST A. DENICKE,
President.

J. H. Greefkens—Optical Illusions and Transformations.

Edison Light & Power Co.—General Electrical Display. Not for competition. Displaying all the recent electrical inventions.

Union Iron Works—Model of Works (See Class 1).

W. H. Martin—Cider, Root Beer, Ginger Ale, Lemonade and Whips.

Mysell, Rollins Co.—Fair Daily.

M. Goldstein—Monopresses.

M. Kollman—Automatic Coin Machines.

A. Carlisle—Pigeon Cote.

On the front of the Cote the following card appeared: "Messenger Pigeon Service Exhibit by the Chamber of Commerce of San Francisco." This Cote is of a similar design used by the U. S. Naval Academy. The Chamber of Commerce recommends them for ships sailing from San Francisco, and also recommends the establishment of a central loft on Goat Island for all birds to home, the location being readily accessible for outgoing vessels. Messages received with returning birds could from there be telephoned to the Merchants' Exchange, Weather Bureau, etc. The United States Navy now has eight similar stations on the Atlantic Coast and one at Mare Island.

OSCAR LEWIS,
GEO. R. PRESSON,
P. J. HEALY,

Management Committee of the Mechanics' Institute, acting as Jurors for this class.

CLASSIFIED LIST OF EXHIBITS AWARDED CERTIFICATES OF SUPERIORITY.

Class.	Exhibitor.	Article.
1	Union Iron Works.....	Compound Engine Driving Dynamo, Baby Hoist
1	Hadwen-Swain Manufacturing Co.....	Gas Engines
1	J. L. Hicks.....	Gas Engine Driving Dynamo
1	Risdon Iron Works.....	Heine Water-Tube Boiler
1	California Tule Anti-Caloric Co.....	Plaster and Steam-Pipe Covering
1	Geo. H. Foye & Co.....	Steam Boiler Alarm
1	Krogh Manufacturing Co.....	Tandem Compound Engine
2	C. H. Evans & Co.....	General Display of Steam Pumps, and Special Mention of Continuous-Flow Crank Pump.
2	Whyte & De Rome.....	Display of Steam Turbine
2	Krogh Manufacturing Co.....	General Display of Pumps
3	Geo. Cumming & Co.....	Portable Forges and Hand-Blowers
3	Judson Manufacturing Co.....	Cut Tack and Nail Machinery in Operation
3	John Weichart.....	Tools, Dies, and Planing Mill Supplies
4	Joshua Hendy Machine Works.....	Double Circular Sawmill, Gang Edger and Set-Head Blocks
5	M. O'Brien.....	Roller Mills, Flour Dressers and Barley Steamers
5	S. F. Call.....	Stereotype Plates
5	Baker & Hamilton.....	Barley Crusher
5	S. F. Chronicle.....	Stereotype Plates
5	Gravity Can-Labeling Machine Co.....	Gravity Can-Labeling Machine
5	Wetmore-Bowen Co.....	Cresta Blanca Bottle Washer
6	Joshua Hendy Machine Works.....	General Display of Mining Machinery, Rock Breaker for Heavy Work—the "Hercules," Ore Feeder, Concentrator—the "Triumph," Hydraulic Giant Nozzle and Joint, Dumping-Car and Ore Buckets.
6	Union Iron Works.....	Rock Breaker for Light Work, Complete Quartz Mill in Operation, Union Improved Concentrator.

Class.	Exhibitor.	Article.
6	Rix Compressed Air Machinery Co., and Fulton Engineering and Ship Building Works.....	Compressed Air Machinery, Rock Drill and Air Compressor
6	L. Radovich.....	Hand Rock-Crusher
6	E. G. Denniston.....	Amalgamated Mining Plates
6	Golden State & Miners' Iron Works.....	Gasoline Prospecting and Sinking Pump
6	A. S. Hallidie.....	Method of Transporting Ores—Wire Ropeway
6	The Pacific Mining Machinery Co.....	Amalgamator
6	F. A. Huntington.....	Centrifugal Mill
7	Baker & Hamilton.....	Washing Machines
7	Joshua Hendy Machine Works.....	Tyler Hand-Ironer—Puff Irons Heated by Steam
8	B. E. Henriksen.....	Adjustable Hose Bridge
8	Dyer Bros.....	Fire Escape System and Fittings
8	Bowers Rubber Co.....	Hose Reel
9	G. M. Towle.....	Model Yacht
9	E. C. Benson.....	Models of Boats
9	Aaron Davis.....	Model of Full-Rigged Ship
9	Union Iron Works.....	Models of War Vessels
9	Geo. W. Kneass.....	Naphtha Launch, Skiff and Rowboat
11	M. O'Brien.....	Pea Sheller and Elevator Boots
11	Hanford Agricultural Works.....	Rotary and Orchard Plow
11	G. E. Chittenden.....	Orchard and Side-Hill Ladders
11	Baker & Hamilton.....	General Display of Agricultural Machinery and Implements, and Special Mention of Eureka, Jr., Gang Plow, and Gorham Improved Broadcast Seeder, Combined Cheese Press.
11	H. N. Cook Belting Co.....	Patent Draper
11	J. P. Howe.....	Model of Harrow
11	California Stump Puller Co.....	Stump Puller, Snatch Block, and Draft Hook
11	Krogh Manufacturing Co.....	Wine Press and Crusher
11	Souney Bros.....	Double Cylinder Tooth for Thresher
12	Geo. W. Pennington & Sons.....	Forged Steel Shoes and Dies for Stamp Mills, Tool Steel Bars, Forged Steel Crank Shafts.
12	Los Angeles Iron & Steel Co.....	Corrugated, Sheet and Galvanized Iron

Class.	Exhibitor.	Article.
12	Joshua Hendy Machine Works.....	Display of Iron Castings, Ornamental Castings, Water Columns and Gauges, Car Wheels Chilled and With Axles.
12	Judson Manufacturing Co.....	Bar and Structural Iron and Steel, Bridge Material, Wrought-Iron Columns, Shafting, Miniature Bridge, Cut Tacks and Nails in Process of Manufacture.
12	Pacific Axle Co.....	Steel Axles
12	Dyer Bros.....	Art, Architectural and Structural Iron Work
12	Washburn & Moen Manufacturing Co.....	Wire Rope, Cable, Barbed Wire and Staples, Wire Nails in Process of Manufacture, Wire Ornaments, Belting and Fencing.
12	California Wire Cloth Co.....	Wire Cloth, Fence, Netting, Screens, Sieves and Mats
12	Risdon Iron Works.....	"Macbeth" Wrought-Iron Pulleys, Hammered Steel Shoes and Dies.
12	Tuckey & Harris.....	Key Retainer and Lock
12	W. F. Harmon.....	Spiral Bed Springs in Process of Manufacture
12	Truman S. Clark Co.....	Iron Bedsteads, Woven Wire Mattresses in Process of Manufacture.
13	Steiger & Kerr.....	Cooking Range for Family Use, Adjustable Grate for Stove Attached.
13	Verrue Instantaneous Water Heater Co.....	Instantaneous Water Heaters
13	Model Window Hinge Co.....	Window Hinges
13	Edwin Shannon.....	"Perfection" Window Screens
13	Baker & Hamilton.....	"Detroit" and "Dubuque" Milk Cans
13	Martin Carrick.....	Galvanized Iron Laths
13	U. & I. Co.....	Telescope Coffee Pots
13	K. W. Gress.....	Long-Handled Dustpan
13	Jas. Graham.....	Display of Family Ranges
14	Pacific Saw Manufacturing Co.....	Display of Saws, Knives, Mandrills, Curriers, Tanners, Saw and Edged Tools.
14	Britton & Rey.....	Metal Advertising Signs
15	L. B. Nordlund.....	"Cashmatic"
16	Rapid Safety Filter Co.....	Water Filter
16	Henry C. Langrehr.....	Effervescent Beer Bottle

Class.	Exhibitor.	Article.
16	C. F. Kirby, Jr.	Sanitary Bath Tubs
16	Donahoo Automatic Sewer Flusher (Whyte & De Rome, Agents)	Best Sewer Flusher
16	Vapor Bath Cabinet Co.	Vapor Bath Cabinets
16	Schuster Bros.	The "Atchison" Beer Governors
16	Geo. C. Dallamore	"Titus" Sewer Gas Trap and Tide and Flush Gate
16	Frank Walker	Walker Siphon Flush Tank
17	Thomas N. Furlong	Cement Laundry Trays and Butchers' Tanks
17	Inyo Marble Co.	Display of Inyo Marble
17	Elliott & Farrell	Art Brick
17	P. H. Jackson & Co.	Sidewalk Lights and Cement Flooring
17	Fred Jurgewitz	Plaster Decorations and Ornaments
17	Wanner & Maddox	Fire Proof Roofing, Partitions and Appliances
17	California Travertine Co.	Marble and Onyx
17	Stockton Art Pottery Co.	Art Pottery
18	California Art Glass Bending and Cutting Works	Display of Art, Cut and Ground, Embossed and Cut. Bent, Beveled and Crystallized Glass in Process of Manufacture, and Glass Signs.
18	C. A. Hooper & Co.	Polished Redwood Buhl
18	Mrs. J. A. Marsh	Inlaid Table by Amateur
18	A. Voss	Miniature Locomotive of Wood
18	C. H. Burr	Weather Strips
18	C. H. Allmond	Inlaid Tables
18	Thomas Hatch	Woods, Veneering, and General Instructions Therein
18	Geo. F. Atkinson	General Display of Wood Novelties
18	W. P. Fuller & Co.	Mirrors, With Special Mention
18	Williams Bros. and G. E. Reynolds	Grill Work, Bubble Blowers in Process of Manufacture
18	Reed & Cleve	Patterns and Models
18	C. M. Plum & Co.	Wood Mantels, With Special Mention of Carving
18	Bader & Cartwright	Simplex Mirror
19	A. Bruenn	Display of Pianos
19	Carl O. Anderson	Stringed Instruments
19	C. C. Hornung	"Touch Regulator" for Pianos
19	F. W. Kreling & Sons	Banjos
20	Yosemite Cycle Works	General Display of Bicycles, "Doublet" Bicycle, Double and Single Steering Tandems, Parts and Fittings Showing Workmanship.

Class.	Exhibitor.	Article.
20	O'Brien & Sons	General Display of Vehicles, Hack, Coupe, Top Buggy, Top and Open Rockaway, Ladies' Phaeton, Canopy Top; Village Cart; Grocery, Milk and Laundry Wagons.
20	Baker & Hamilton	"Open Victor" Buggy; Open Business Buggy, with Special Mention.
20	The Novelty Co.	Baby Jumper
21	Souney Bros.	Revolving Invalid Bed
21	E. H. Marwedel	Window Shades and Poles, Brass Bedsteads
21	C. M. Plum & Co.	General Display of Furniture, Upholstery Work, Special Mention Made of Wood Carving.
22	August Jungblut	Billiard Table, Racks and Cues
22	St. Germain Billiard Co.	Pagoda Table and Billiard Specialities
23	Cyclops Iron Works	Refrigerating Machine
23	Zan Bros & Co.	Brooms and Whisks in Process of Manufacture
23	Western Basket and Manufacturing Co.	Fruit and Laundry Baskets, Clothes Hampers and Veneer Barrels.
23	J. E. Taylor & Sons	Fancy Brooms and Manufacture of Souvenir Brooms
23	Baker & Hamilton	Woodenware and Dairy Machinery, With Special Mention
23	Fulda Bros.	Self-Tightening Process for Tanks
23	G. Biehs	Fancy Baskets, Rattan Baskets, Hampers, and Cradles
23	The A. N. Anderson Woodenware Co.	Butter Tubs
23	Buchanan Bros.	General Display of Brushes in Process of Manufacture
23	David Woerner	Cooperage
24	Kullman, Salz & Co.	Sole and Harness Leather, Cut Bottom Stock, Harness Made of Same.
24	L. P. Degen	Star Brand Leather Belting
24	H. N. Cook Belting Co.	Complete and Extensive Display of Leather Belting, Lacing and Rawhide Goods.
24	Goldberg & Tweedie	Shoes in Process of Manufacture, Special Mention
24	John Utschig	Display and Assortment of Men's Hand-Made Shoes

Class.	Exhibitor.	Article.
24	Fred R. Cook.....	Link Belting
24	John Lind.....	Shoes of Fine Workmanship
24	Bowers Rubber Co.....	Rubber and Cotton Hose, Belting, Mats and Matting in Process of Manufacture, Special Mention.
24	Siebe Shoe Co.....	Ladies' Shoes
24	Metten & Gebhardt.....	Leather, Upper Stock
25	Neville & Co.....	Marshall's Salmon Twine Gill Nets
25	Tubbs Cordage Co....	Rope, Cordage and Twine, Special Mention
25	S. F. Call.....	Paper and Matrices
25	S. F. Chronicle.....	Paper and Matrices
25	Willamette Pulp & Paper Co.....	Paper
25	California Cotton Mills.....	Rope, Cordage and Twine, Cotton in Process of Manufacture, Special Mention.
25	F. Marx & Co.....	Display of Furs
25	M. Braun.....	Curled Hair
25	D. Eisner.....	Stuffed Seal, Illustrating Stages of Preparation
25	Berwin & Gassner.....	Fine Furs and Garments
26	Brown Bros. & Co., Agents Oregon City Woolen Mills.....	Display of Woolen Goods, Cassimeres and Flannels.
26	California Cotton Mills.....	Cotton Fabrics, Quilts, Comforters, Duck, Drill, Toweling and Cotton Batts, in process of Manufacture, Special Mention.
26	J. J. Pfister Knitting Co.....	Knit Bathing Suits, Sweaters, Bicycle Suits, Underwear, Cotton, Wool and Silk; Special Mention of Golf Hose in Process of Manufacture.
26	Carlson-Currier Co.....	Silk Thread and Art Embroidery Silk
26	Golden Gate Woolen Manufacturing Co.....	Blankets, Buggy and Carriage Robes, Flannels, Cassimeres, Cloths and Tweeds in Process of Manufacture, Special Mention.
27	Eagleson & Co.....	Shirts in Process of Manufacture
27	Brown Bros. & Co., Agents Oregon City Woolen Mills.....	Clothing Made of Their Own Cassimeres
27	C. P. Heininger & Co.....	Canes
27	C. Herrmann & Co.....	Fine Hats and Caps
27	K. A. Lundstrom.....	Hats in Process of Manufacture
27	Chas. Fisher & Co.....	Leggins
28	H. Bette.....	Ladies' Tailor-Made Suits

Class.	Exhibitor.	Article.
28	Palmer & Godshall.....	"Ideal" Tie Clasp
28	Chas. Fisher & Co.....	Leggins
28	Mrs. E. D. Lawrence.....	Dress-Cutting System
28	Mesdames Steele & Bergman.....	Dress-Cutting System
28	Mrs. W. W. De Pons.....	Paper Flowers and Goods
28	Mrs. S. Bankhead.....	Comforters and Pillows
28	Mme. Alma E. Keith.....	Fine Millinery
28	Mrs. F. Ansorge.....	Chenille and Hat Ornaments
29	C. R. Fraser.....	Miniature Electric Plant
29	Heald's Business College.....	Railway Motors, Dynamos, and Other Electric Appliances
29	A. Greenbaum.....	Engraving by Electricity
29	A. Van der Naillen's School of Engineering.....	Electric Railway Operated by Trolley
29	Dr. Philip Mills Jones....	Fluoroscope Exemplifying the X-Ray
29	Pacific Electric Works.....	Electric Appliances
30	Dr. E. Jacobs.....	Optical Goods and Lense Grinding
30	G. E. Lamont.....	Scientific Glass Blowing, Special Mention
30	J. C. Sala.....	Display of Scientific Instruments
30	The A. Lietz Co.....	Scientific Instruments of Aluminum Alloy, Special Mention of Workmanship.
31	Chicago Artificial Limb Co.....	Artificial Limbs
31	Dr. H. G. Young.....	Display of Dental Work
32	C. P. Heininger & Co.....	Shell Jewelry and Fancy Work
32	Sam Sonnenfeld.....	Lapidary Work
33	W. N. Brunt.....	Fine Souvenir Printing, Badges, Regalia and Embossed Work Done on Printing Press.
33	A. M. Robertson.....	Copper-Plate and Steel-Dye Engraving and Printing, Hand-Dye Stamping, Illuminating and Embossing, Designing Book Plates and Monograms.
33	H. S. Crocker Co.....	Blank Books in Process of Manufacture, Fine Printing of Book Work and Lithographing.
33	H. W. Faust.....	Maps and Guides of San Francisco
33	Louis Roesch Co.....	Label, Book, Job and Poster Printing
33	Educational Map Manufacturing Co.....	Educational Maps
34	Mrs. J. C. Tucker.....	Raised and Burnt Leather Book Cover
34	Mrs. Kate Pettie.....	Wax Work ("Victoria Regina")
34	Mrs. B. F. Klock.....	Farmer's Wreath

Class.	Exhibitor.	Article.
34	Mrs. S. E. Hewitt.....	Paper Work
36	Miss Roberts.....	Decorative Porcelain
36	Miss H. D. Phillips.....	Decorative Porcelain
36	Mrs. J. H. Gilmore.....	Decorative Porcelain
37	P. Grandmougin.....	Modeling in Clay
38	Mrs. Ch. de St. Hubert.....	Oil Painting on Velvet
38	Koasai S. Matsushita.....	Japanese Art
38	W. M. Haigo.....	Japanese Art
38	O'Hara & Livermore.....	Display of Decorative and Applied Arts
38	Joseph A. Hecht.....	Shorthand System
38	Heald's Business College.....	
	Display of Penmanship and Pen Lettering	
38	Denman School.....	Collection of Scholars' Work
38	Mollie G. Hutchinson.....	Pen and Ink Work
38	Evening Bulletin Art Department.....	
	Pen Drawings and Reproducing Process	
38	S. F. Call Art Department.....	
	Pen Drawings and Reproducing Process	
38	Overland Monthly.....	Original Illustrations
38	A. Van der Naillen's School of Engineering.....	
	And to pupils of the same, as follows: Ralph A. Huntington, Constantine Krasilnikoff and Geo. H. Winslow.	
	Mechanical Drawings	
39	Theodore C. Marceau.....	
	Most Artistic Photographic Display and Bas Relief Photographs.	
39	F. H. Bushnell.....	
	Excellent Display and Best Collection of Photographic Studies.	
39	J. Fowzer.....	Meritorious Photographic Display
39	California Camera Club.....	
	General Collection of Photographs by Amateur Photographic Society, Special Mention.	
39	Miss E. Frauenholz.....	
	Display of Photographs by Individual Amateur	
39	W. L. Watts, of State Mining Bureau.....	
	Display of Cylindrographs and Other Photographic Studies	
40	Bibo, Newman & Ikenberg.....	Fruit Syrups and Juices
40	Veronica Mineral Water Co.....	Mineral Water, Medicinal
40	S. P. Blumenberg.....	Dr. Gordon's Chocolate Emulsion
40	Tillmann & Bendel.....	Flavoring Extracts
40	Wm. Lambert.....	H. & L. Axle Grease
40	C. M. Hunter.....	Cleaning Compound (Absorene)

Class.	Exhibitor.	Article.
40	Fishbeck & Gloatz.....	
	Most Complete General Display of Soap, Special Mention	
40	E. W. Bennett.....	Metal Polish
40	California Fireworks Co.....	Fireworks (dummy)
40	A. Grothwell.....	Pile Covering
40	Madame L. Marchand.....	Hair and Complexion Preparations
40	Standard Soap Co.....	Candles and Glycerine
40	B. F. Wellington.....	Egg Food
40	W. P. Fuller & Co.....	Paints, Oils and White Lead
40	John Hortsmann.....	Lavarine
40	M. Holje.....	Glue
40	H. P. Petersen.....	Toilet Soap
40	Aetna Mineral Water Co.....	Aetna Mineral Water
40	Paraffine Paint Co.....	P. & B. Roofing and Paint
40	Tuscan Springs, W. J. O'Neil, Agent.....	
	Tuscan Mineral Water and Salts	
40	Lytton Springs Sanitarium.....	
	Geyser Soda and California Seltzer	
40	Fred R. Cook.....	Belt Grease
40	Greenbaum & Co.....	Perfumery
40	Robinson Chemical Co.....	Harness Dressing
40	Willson Bros.....	Wall Paper Cleaning Compound
40	Newton Bros.....	Gum
40	Santa Barbara Mineral Water Co.....	Bythinia Water
40	Boardman, Kenne & Co.....	Toilet Waters and Sachet Powders
40	Waller Bros.....	
	Tooth, Nail and Baby Powders, Almond Meal and Shampoo	
40	G. A. Herzog.....	Process of Graining From Natural Woods
40	A. Marchand.....	Gold Paint
41	Bibo, Newman & Ikenberg.....	Mince Meat and Jellied Fruits
41	California Italian Paste Co.....	Macaroni, Vermicelli, Noodles, Etc.
41	Our Mothers' Milling Co.....	
	Our Mothers' Mush, and Our Mothers' Hot Cake Meal	
41	The American Condensed Milk Co.....	
	Evaporated Cream, and Condensed Milk	
41	Tillmann & Bendel.....	
	Trophy Baking Powder and Sultan Coffee, and Aromatic Spices.	
41	Union Fish Co.....	Codfish
41	L. G. Sresovich & Co.....	Shredded, Desiccated and Stripped Cocoanut
41	L. Becker & Co.....	Digestive Rusks
41	Chino Valley Beet Sugar Co.....	Sugar
41	Western Meat Co.....	Packing-House Products

Class.	Exhibitor.	Article.
41	Mrs. E. P. Neale.....	Hygienic Coffee
41	C. S. Laumeister.....	Pettijohn's Breakfast Gem
41	Stockton Milling Co.....	Crown Flour
41	Pacific Coast Syrup Co....	Maple Syrup and Tea Garden Drips
41	John H. Spohn.....	Aunt Jemima's Pancake Flour
41	Standard Biscuit Co.....	
	Fine Display of Crackers, Cakes and Fancy Biscuits	
41	American Biscuit Co....	Best Crackers, Cakes, and Fancy Biscuits
41	Sperry Flour Co.....	Germea
42	Gundlach-Bundschu Wine Co.....	
	General and Artistic Display of Wines	
42	Gundlach-Bundschu Wine Co.....	
	Wines, Rhenish Types, Johannisberg, Reisling, Gutedel, Traminer.	
42	Gundlach-Bundschu Wine Co.....	
	Wines, French Types, Semillon, Cabernet Sauvignon	
42	Gundlach-Bundschu Wine Co.....	
	Wines, Malaga, Sherry, Madeira, and Tokay	
42	Gundlach-Bundschu Wine Co.....	
	Brandy (Natural Grape, over five Years Old)	
42	Italian-Swiss Agricultural Colony.....	
	Champagne (Extra Dry), (Natural Process)	
42	Italian-Swiss Agricultural Colony.....	
	Wines, French Types, Burgundy and Zinfandel	
42	Italian-Swiss Agricultural Colony.....	
	Wines, Italian Types, Barbora, Barolo, and Tipo Chianti	
42	P. C. Rossi.....	California Vermouth
42	St. Hubert Tonic Port Co.....	Tonic Port
42	Harris, Kingston & Co.....	Champagne (Artificial)
42	California Condensed Juice Co.....	Condensed Grape Juice
42	Coope & Pippy, Agents Paul Masson.....	
	Champagne, Dry (Natural Process)	
42	Coope & Pippy, Agents Ben Lomond Wine Co.....	
	Wine, Grey Reisling (Chauche Gris) Chablis	
42	Coope & Pippy, Agents J. Schram.....	Wine, Sauvignon Vert
42	Coope & Pippy.....	Wine, Oporto Type (Vino del Rey)
42	St. Hubert Vineyard Co....	Wines, Sauterne (Dry), Matero Blend
42	Wetmore-Bowen Co.....	
	Wines (Cresta Blanca), Haut Sauterne, Medoc Blend, Angelica, Muscatel (Lunel Type).	
42	St. Hubert Vineyard Co.....	
	Natural Grape Brandy, Two Years Old, Natural Grape Brandy, Five Years Old.	

Class.	Exhibitor.	Article.
43	Fredericksburg Bottling Co.....	
	Best Display of Beers, Pilsener, Culmbacher	
43	National Brewing Co.....	Export Beer, Patent Stopper Beer
44	University of California.....	Leaf Tobacco
44	R. Kuerzel.....	Cigars in Process of Manufacture
45	Mill Valley Mineral Spring Co..	Mud Bricks for Bathing Purposes
45	Pittsburg Coal Co., Chas. R. Allen, Agent.....	Coal
46	Pacific Coast Borax Co.....	Borax, Special Mention
46	Bibo, Newman & Ikenberg.....	Jellies, Jams and Preserves
46	Tillmann Canning Co., Tillmann & Bendel, Proprietors....	
	Tomato Catsup, Canned Fruits and Marmalade	
46	Pleasanton Hop Co.....	Choice Quality of Hops
46	Dairymen's Union.....	Eggs, Butter, and Cheese
46	Saratoga Packing Co.....	Prunes
46	John Loeffler.....	
	Pickles, Preserves, Sauces, Catsup, Mustard, Olives and Vinegar.	
46	Wetmore-Bowen Co.....	Olive Oil
47	I. X. L. Tamale Co.....	I. X. L. Tamales
47	Edison Light & Power Co.....	General Electrical Display
47	Union Iron Works..	Model of Union Iron Works, Special Mention
47	A. Carlisle.....	Pigeon Cote
47	Manufacturers' and Producers Association of California.....	
	Display of Diligence and Energy in Advocating the Universal Use of Home Products.	
47	California Fish Commission.....	
	Display of Fresh Water Food Fishes of California	

GOLD MEDALS.

A special gold medal was awarded to Tillmann & Bendel for their display.

The following received gold medals on popular vote, the voting contest lasting from September 11th to October 1st, inclusive:

Joshua Hendy Machine Works.

Sperry Flour Company.

American Biscuit Company.

Stockton Milling Company.

Union Iron Works.

The joint exhibit of The Fulton Engineering and Ship Building Works, and The Rix Compressed Air Machinery Company.

CASH AWARDS.

OIL PAINTINGS.

Figures—

Eva Withrow—"Life, an Allegory".....	\$30
A. Jouillin—"Study".....	20
Grace Hudson—"The Boss" (Kay-Kah-wy).....	10

Landscape—

Thomas Hill—"Grand Canyon of the Colorado".....	30
C. von Perbandt—"On the Moselle".....	25
Chris Jorgensen—"Rapello, Italy".....	10
H. R. Bloomer—"Valley of the Colne, England".....	20
A. Jouillin—"Study of Lupin".....	10
C. Chapel Judson—"A Misty Spring Morning".....	10

Marine—

C. D. Robinson—"On the Ocean Beach".....	20
C. A. Rogers—"Cove at Point Lobos".....	10

Shore Marine—

R. D. Yelland—"Ebb Tide, Point Pinos, Monterey".....	30
John A. Stanton—"Fishing Village, Brittany".....	20

Wood Interior—

L. P. Latimer—"The Brook".....	15
Carl Dahlgren—"Creek Scene at Bartlett Springs".....	15

Genre—

Jules Pages—"Un coin de cuisine a Montmartre".....	30
Helen Hyde—"Happy Thoughts".....	20
John M. Gamble—"The Milk Maid".....	15
C. Chapel Judson—"An Interesting Story".....	10
Mollie G. Hutchinson—"Frau Bloc" (Dutch Peasant Woman)	10

Portrait Study—

J. H. E. Partington—"Rembrandt van Ryn".....	20
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Portrait—

E. C. Peixotto—"Portrait of Lady in Black".....	25
Henry Raschen—"Portrait of Boy".....	20
J. A. McQuarrie—"Portrait of Mr. D.".....	20

Still Life—

William Hubacek—"Still Life".....	20
Isabel G. Hunter—"Still Life".....	15
G. Cadenasso—"Mandolin and Roses".....	15

Flowers—

Alice B. Chittenden—"Peonies".....	20
Sarah E. Bender—"Roses".....	10

Historical Painting—

E. M. Pissis—"Discovery of San Francisco Bay by Portola"	20—\$ 545
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WATER COLORS.

Figures—

John A. Stanton—"Fisherwomen in Brittany".....	\$10
L. Maynard Dixon—"Sketch From Life".....	10
Helen Hyde—"Girl, Reading".....	5

Marine—

Chris Jorgensen—"Fishermen's Boats, Venice".....	15
John M. Gamble—"Venice" (Pastel).....	10
Annie Francis Briggs—"At Low Tide".....	5

Landscape—

L. P. Latimer—"Early Dawn".....	15
John M. Gamble—"South Berkeley".....	5
Mary T. Menton—"Autumn Leaves".....	5

Pastel—

Oscar Kunath—"Portrait".....	15
Alice B. Chittenden—"Portrait".....	10
Mrs. Lillian M. Candlin—"Portrait".....	5

Flowers—

Eleanor Warren—"Coriopsis".....	10
Mary T. Menton—"Study of Violets".....	5

Historical Figure Painting—

F. E. James Anderson—"Raising the Flag at Monterey, July 7, 1896".....	15
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Still Life—

Oscar Kunath—"Tempi Passiti".....	10—\$ 150
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DECORATIVE ARTS.

Painting on Porcelain—

Oscar Kunath—"Cupids, Flowers and Portrait".....	\$15
Mesdames Perley and Culp—Decorated Porcelain.....	10
Misses Smith and Stephens—Decorated Porcelain....	5—\$ 30

SCULPTURE, STATUARY AND CARVING.

Otto Dobbertin—Figure in Plaster.....	\$15
Ruperd Schmid—Marble Bust.....	25
Ruperd Schmid—Bronze Bust.....	25
Ruperd Schmid—Plaster Bust.....	15
Ruperd Schmid—Bas Relief in Plaster.....	15
Robert Thomas—Bust in Plaster.....	10
M. Reinhardt—Bust in Plaster.....	10
Morris Selig—Bas Relief in Plaster.....	10
Frederick Flohr—Bas Relief in Plaster.....	10
Marsimiliano Poli—Wood Carving, Flowers, Cupids, etc.	10—\$ 145

ENGRAVINGS, ETCHINGS, TAPESTRY, ETC.

J. N. Griffin—Original Etching, "Cork City".....	\$10
Mrs. Chris. Jorgensen—Fire Etching on Wood, "The Smokers"	10
Misses O'Hara and Livermore—Fire Etching on Leather	5
G. Dietz—Tapestry Painting.....	10
E. Foucher—Tapestry Painting.....	5
Henry Raschen—Charcoal Drawing From Life.....	10
Lillie L. Freeman—Charcoal Drawing.....	5
L. Maynard Dixon—Pen and Ink Drawing.....	5—\$ 60

Total in Art Department..... \$ 930

CLASS No 34.

Mrs. T. H. Wood—

Honiton Lace Set.....	\$ 3
Battenberg Lace Set.....	3
Point Lace Handkerchiefs.....	3

Mrs. A. M. Vetterli—

Knit Spread	3
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Mrs. E. Vestey—

Sea Mosses	3
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Mrs. J. H. Gilmore—

Tea Cloth	3
Embroidery on Linen.....	3
Table Cover	3

Mrs. M. J. Simpson—

Needle work	5
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Mrs. P. J. Bush—

Embroidered Linen Frames.....	3
Sofa Pillow	3
Tray Cloth	3
Fire Screen	3

Miss Kendrick—

Crazy Quilt	5
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Miss Josie Stephens—

Silk Quilt, with Chenille Embroidery.....	5
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Mrs. J. M. Muller—

Knitted Lace Curtain.....	3
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Miss B. Sanders—

Spanish Drawn Work.....	3—\$ 57
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CLASS No. 46.

Sperry Flour Company—

Wheat in Sheaf.....	10—\$ 10
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FLORAL DAY, OCTOBER 1, 1896.

First prize for best set of three floral pieces of most original and beautiful design, awarded to John H. Sievers..... 75

158 TWENTY-NINTH INDUSTRIAL EXPOSITION.

Second prize, awarded to Frank Pelicano & Co... 50
Third prize, awarded to Chas M. Leopold..... 25—\$ 150

JOHN McLAREN,
MRS. E. A. DENICKE,
MRS. GEO. R. PRESSON,
MRS. DR. MARTIN REGENSBURGER,

Jurors Floral Day.

Prize for best poem on "Admission Day" by a
lady native of the State, awarded to Deborah
Hollingsworth 25—\$ 25

AWARDS ON OPENING NIGHT.

Tubbs Cordage Co., best prepared and most com-
plete exhibit ready at the hour of opening
of the Exposition..... 250
W. P. Fuller & Co., second-best exhibit, awarded
as above 175
Gundlach-Bundschu Wine Co, third-best exhibit,
as above 75—\$ 500

E. B. POND,
GEO. H. HOPPS,
LOUIS COOK,
N. B. PARRISH,
J. R. MARTIN,
E. F. BENT,
C. HAYNERT,

Jurors Opening Night.

Awards for designs for Certificates of Superiority—
First prize—Perham W. Nahl.....\$ 50
Second prize—G. Dietz..... 20—\$ 70
Total cash awards \$1,742

REPORTS
OF
COMMITTEES. AND SUPERINTENDENT
OF THE
TWENTY-NINTH INDUSTRIAL EXPOSITION.

REPORT OF THE COMMITTEE ON ART.

To the Board of Trustees—

Gentlemen: Your Art Committee reports that the Art Department this year, under the supervision of Mr. Henry Raschen, was well conducted, and largely by Mr. Raschen's untiring efforts the Art Gallery was filled with one of the best exhibitions held in years, as will be seen by reference to the Art Catalogue. An art drawing was instituted for the first time and the California Association of Art Patrons organized. As this was a new feature and was not started until the Fair was well under way, the amount of subscriptions received was necessarily small, but we think that next year, if subscriptions are received from the commencement of the Fair, and a booth erected in the Art Gallery where subscriptions are received, and where the pictures from which the distribution is to be made are displayed, a large amount of money will be received.

The pictures distributed this year were of a high order of merit, and all the artists whose pictures were purchased made their prices extremely low to encourage the drawing. The distribution of pictures took place on December 10, 1896, and were allotted as follows:

Miss I. E. Clark received landscape, "Valley of the Colne, England," by H. R. Bloomer.

Howard C. Holmes received landscape, "Rondout Creek," by C. von Perbandt.

Chas. Bundschu received landscape, "Outskirts of Barbizon," by H. R. Bloomer.

Chas. Bundschu received landscape, "A Pastoral," by L. P. Latimer.
F. W. Kelley received "Pansies," by Mrs. Alice B. Chittenden.

Payot, Upham & Co. received "Violets," by G. Cadenasso.

Payot, Upham & Co. received water color, "Evening," by John M. Gamble.

Ernst A. Denicke received landscape, "Walhalla River," by C. von Perbandt.

Ernst A. Denicke received landscape, "Sunset," by L. P. Latimer.

J. H. Culver received "Study of Head," by Oscar Kunath.

Miss V. F. Kerr received "Arab Yard," by John M. Gamble.

Respectfully submitted,

E. P. HEALD,
RODNEY KENDRICK,
E. H. COLE,
Art Committee.

REPORT OF MACHINERY COMMITTEE.

To the President and Board of Trustees—

Gentlemen: Your Machinery Committee respectfully report that everything in the machinery department was run in a satisfactory manner. There was a large exhibit of many classes of machinery, and, as a result of running so much machinery, as well as running the engine all day and evening, to drive the machinery for the shoe exhibit up-stairs, and also as during a large part of the Fair an air compressor was kept going all night, the coal bill was quite an item.

Your committee also had the three new tanks built for the fish exhibit. The matter of lighting was arranged for by your committee, and the Edison Light & Power Company put in twenty-four arc lights, some of which were to illuminate the fish tanks, besides sufficient incandescent lights. Gas was also used. At the conclusion of the Fair the boilers were cleaned out and put in order.

Respectfully submitted,

E. H. COLE,
HOWARD C. HOLMES,
HENRY ROOT,
Machinery Committee.

RECEIPTS FROM PRIVILEGES.

Blumenberg, S. P. Chocolate Emulsion.....	\$ 5.00
Boardman, Kenne & Co., Perfumery.....	38.10

REPORTS OF COMMITTEES.

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Breen, Miss Katie, Jewelry and Optical Goods.....	50.00
Brunt & Co., Award Ribbons	14.62
Burd, L. H., Soap.....	10.00
Godshall, Mrs. M., Ideal Shoe-String Fasteners.....	20.00
Goldstein, M., Monopresses	30.00
Greefkens, J. H., Illusions.....	400.00
Greenbaum & Co., Perfumery.....	31.55
Haigo, W. M., Japanese Artist.....	25.00
Heininger, C. P. & Co., Canes, Shells and Shell Goods.....	50.00
I. X. L. Tamale Co., Restaurant and Tamale Stand.....	335.00
Jacobs, Dr. E., Optical Goods.....	50.00
Jones & Kennell, Tintypes by Electric Light.....	50.00
Keelar, F. T., Jewelry and Optical Goods.....	246.35
Kollman, M., Automatic Coin Machines.....	50.00
Kuerzel, R., Cigars.....	102.00
Martin, W. H., Lemonade and Cider.....	90.00
Martin, W. H., Root Beer and Ginger Ale.....	28.00
Martin, W. H., Whips.....	30.00
Marchand, A., Gold Paint.....	25.00
Marchand, Madame, Toilet Preparations.....	825.00
Mysell, Rollins Co., Newspaper.....	100.00
Newton Bros., Chewing Gum.....	54.34
Rieger, P. & Co., Perfumery.....	2,649.60
Sparrowe, C. G., Candy, Sodawater, Popcorn and Ice-cream..	25.00
Taylor, J. E. & Sons, Brooms.....	4.60
Waller Bros., Perfumery	

\$5,389.16

REPORT OF COMMITTEE ON MANAGEMENT.

To the President and Board of Trustees of the Mechanics' Institute—Gentlemen: Your committee have the pleasure to submit the following report relative to their duties in connection with the recent Twenty-ninth Industrial Exposition and Home Products Exhibition of the Institute:

The rules governing the exhibitors and their employees, and our own force of employees were well carried out under the watchful supervision of our own Superintendent, and the few cases of friction arising were disposed of with but little trouble.

The new plan of cash premiums for the three best exhibits ready at the hour of opening had a surprisingly good effect, and it is said that the Institute has never before held an Exposition that was com-

plete (practically) at the hour of opening. We would here suggest that there should be at least ten prizes of say \$50.00 each offered for the same purpose at our next Fair, as the jurors found it difficult to choose among so many exhibits of positive merit.

The jurors of award in all classes attended to their duties, promptly and faithfully, and the awards of diplomas were all made before the Fair ended, and the diplomas were quickly delivered after its close. It is your committee's opinion that the Premium List should be arranged and revised before the next Fair to meet all requirements.

The amount received from privileges from various sources was \$5,389.16, an increase of \$1,177.08 over the like receipts of the preceding Fair. In this connection it is well to use caution about renting to privileges of undesirable and "Cheap John" nature.

The feature of the voting contest for the best exhibits in the opinion of the voters, was not satisfactory, and proved quite the reverse of our anticipations, and probably will never be tried again.

We submit herewith a detailed statement of the privileges sold and the amount received for each.

The many preparatory meetings were held by your committee in conjunction with the Committee on Exhibits and the Committee of the Manufacturers' and Producers' Association, and credit is due the latter Association for its hearty co-operation.

The "Special Day" feature of the Exhibition was well and effectively carried out by its energetic and able committee, and we recommend that this idea be adopted at our next Exposition.

Your Management Committee are deeply grateful for the hearty assistance given by the other members of your Board and our genial President, which greatly lightened their duties. In a financial point of view, considering the depressed times, our Exhibition was very satisfactory, as may be seen by our Finance Committee's report.

As an exhibition of attractive, useful, meritorious and beautiful exhibits it has rarely been excelled, and the energies of coming Boards should always be exerted with this object in view.

Respectfully submitted,

OSCAR LEWIS,

G. R. PRESSON,

P. J. HEALY,

Committee on Management.

REPORT OF COMMITTEE ON MUSIC AND DECORATIONS.

Gentlemen: Your Committee on Music and Decorations beg to report that the music for the Twenty-ninth Industrial Exposition of

the Mechanics' Institute was satisfactorily rendered by a band of thirty-eight skilled performers, selected and ably conducted by Professor Gustav Hinrichs.

A number of nights, during the Exposition, were set apart and devoted exclusively to the works of eminent composers, and the increased attendance at these sessions, and the interest manifested by the spectators attest the popularity of this feature in the management of the musical program; especially was this noticeable on "Wagner nights."

Appropriate music was likewise rendered on the many "Special Days" provided by your Committee on Special Attractions. This method of avoiding monotony in the programs, and promoting the interest of other organizations in the exhibitions of the Institute has proven eminently successful.

To make this feature more efficient in future expositions, if it is continued, your committee would recommend that the Chairman of the Music Committee be placed on the Committee on Special Attractions.

Vocal music was, on four occasions, furnished by the Knickerbocker Quartette, and the work of this organization was highly commended by those who were fortunate enough to hear them.

The decorations this year while comparatively inexpensive were quite effective, and added much to the attractiveness of the Pavilion during the Exposition.

Your committee would respectfully suggest that if the "Special Day" feature be continued in future Fairs of the Institute, that the number of musicians regularly engaged be not more than thirty-two, as the number can be increased on any occasion when more power in the band is required.

Respectfully submitted,

RODNEY KENDRICK,

G. R. PRESSON,

FERDINAND FORMHALS,

Committee.

REPORT OF COMMITTEE ON SPECIAL EVENTS.

To the Board of Trustees:—

Your committee appointed to prepare special events for the Fair submit to you the list of various events held with the recommendation that these events be made a special feature of future Fairs, both on account of their value for attracting people to the Fair and as a means of interesting various organizations in the work the Me-

chanics' Institute is doing to encourage the industrial growth of the community.

We would recommend that in future Fairs this committee be appointed as early as possible in order that their preparations can be completed by the opening of the Fair, as your committee found themselves much pressed for time, especially when arrangements for certain evenings had fallen through at a late date, it was difficult to arrange new features in time, and we would further recommend that this committee be composed as far as possible of the members of the Music Committee in order that the programs arranged by the two committees may harmonize.

Tuesday, September 1st, Opening Night, was given over to the Manufacturers' and Producers' Association. Bonfires were lighted in the street, and a display of fireworks was held. Handsome badges were prepared for the vice-presidents, and the following exercises were held in the Art Gallery:

Opening Address.....
 Julian Sonntag, President Manufacturers' and Producers Association.
 Concert Song.....Knickerbocker Quartet
 AddressHon. Horace Davis
 Home Industry Song.....Knickerbocker Quartet
 (Especially composed for the occasion.)
 Address.....Hon. James G. Maguire
 "America".....By the Audience

On Wednesday, September 2d, there was to have been a debate on the Free Coinage of Silver, which could not be arranged for.

Thursday, September 3rd, Scotch Night, under the auspices of San Francisco Scottish Thistle Club and Clans Fraser and Macdonald of the Order of Scottish Clans. The Clansmen in Highland costume marched in, headed by four pipers. Addresses were delivered by Irving M. Scott and Hugh Craig. A Scotch reel and sword dance were performed on the band stand, and four pipers in full Highland costumes played the bagpipes. The Committee of Arrangements were M. L. Crowe, Edward Kerr, Dr. J. A. McDonald, Alexander Campbell.

Friday, September 4th, Bicycle Night, held under the auspices of the Wheelmen's Municipal League. All bicyclists in costume were admitted free, and handsome prizes were given as follows: Best ladies' bicycle club, Alpha Club; lady wearing most attractive costume, first Mrs. Muller, second Mrs. Tilden; handsomest lady in costume, Mrs. Ellis; bicycle club making best appearance, Barker Club, second best California Cycling Club; wheelman wearing neatest costume, J. Hassin; handsomest wheelman in costume, J. S.

Eagan; homeliest wheelman, J. Klunen; tallest wheelman, Fred Grant; fattest wheelman, S. D. Stein; thinnest wheelman, W. A. Smyth; smallest wheelman, W. E. Shardon; wheelman with the longest whiskers, Judge Campbell. Addresses were made by Hon. James G. Maguire, James H. Barry and Julius Kahn. Walter B. Fawcett had charge of the arrangements.

Monday, September 7th, Oakland Night.

Tuesday, September 8th, Chinese Night. The Chinese Imperial Band appeared and made night hideous.

Wednesday, September 9th, Admission Day. In the afternoon a Baby Show for native babies under two years was held, when prizes were given the prettiest and heaviest babies as follows: Prettiest girls under one year, Ethel Rose Brennan first, Myrtle Cranz second, Doris Metcalf third; prettiest girls between one and two years, Grace Boyd first, Lizzie Hall second, Pauline Kuttner third; prettiest boys under one year, George Dobie first, Ewen Cameron second, Clifford Swan third; prettiest boys between one and two years, Omar Courtney first, Ivan Heron second, Harry Donnelly third; twins, Hazel and Harold Jaujou, and Arthur Clarence and Charlotte Pickens. Judges, George T. Bromley, Ferdinand Formhals, S. H. Tacy. Heaviest girls under one year, Charlotte Pickens first, Baby Warcher second, Baby MacFarlane third; heaviest girls between one and two years, Myrtle Leipsic first, Ethel Moran second, Ruth Hoadley third; heaviest boys under one year, Charles Rossow first, Arthur Graham second, Daniel Duncan third; heaviest boys between one and two years, Charles Heininger first, Walter Wendel second, Edward McManus third. Weighing Committee, Oscar Lewis, George R. Presson, George Cumming.

In the evening Merton C. Allen, for the Native Sons, and Miss Mariana Bertola, for the Native Daughters of the Golden West, delivered addresses from the bandstand. The prize of \$25 for the best poem on "Admission Day" submitted by a lady native of the State, was won by Miss Deborah Hollingsworth. The poem is printed, following this report.

Thursday, September 10th, Italian Night. Paolo Barbieri, President of the Day. Addresses from the bandstand were made in English by A. Sbarboro and in Italian by Dr. Joseph Pescia. In the afternoon pupils of the Italian schools were admitted.

Friday, September 11th, Grammar School Night. Singing by the Denman Grammar School pupils, under the leadership of Principal A. L. Mann.

Saturday, September 12th. In the afternoon the space around the bandstand was roped off and dancing for prizes was done by children.

Prizes were awarded to Pearl Luvena Lund, Dixie Gray and Marian Roseville.

Monday, September 14th. Olympic Club Night. The athletes from the Olympic Club performed on a special stage and gave an exhibition of wrestling, tumbling, fencing, boxing, etc., under the able direction of Leader Howard P. Taylor, Jr.

Tuesday, September 15th. Union Iron Works Night. The employees of the Union Iron Works attended. Debate held in the Art Gallery on the merits of the new charter to be submitted to the voters in November. In favor of charter—A. P. Van Duzer and Henry N. Clement; against—P. J. Healy and J. M. Reynolds.

Wednesday, September 16th. Anniversary of Mexican Independence. Playing by Mandolin Clubs under the direction of Professor Kolander.

Thursday, September 17th. Irish Night, under the auspices of the Celtic Union, J. Deasy, President of the Day. Address delivered by Joseph Leggett. In the afternoon the pupils of the Catholic Parochial Schools and Colleges were admitted.

Friday, September 18th, Oakland Night. The Reliance Club was present.

Saturday, September 19th. Veteran Firemen's Night. The veterans came in uniform with their engine. They gave a realistic scene of working the machine at a fire as in former years. Their engine was left on exhibition several days.

Monday, September 21st. German Night. Singing by a large number of members of the different German singing societies, led by Professor Franz Fischer, organized by Robert Lorenz and Charles Trautner. In the afternoon the pupils of the German schools were admitted.

Tuesday, September 22d. French Night. M. Daniel Levy, President of the Day. Singing by French Choral Society. In the afternoon pupils of the French schools attended. In the morning the homing pigeons exhibited the previous day were taken to Gilroy and liberated. The prize of a silver cup to the pigeon returning first to its loft was won by Dr. George, of Antioch. The pigeons were kept on exhibition the following day.

Tuesday, September 24th. Fraternal Night. Knights of Pythias in uniform were present and held exercises in the Art Gallery. Colonel commanding, J. C. Lohmeyer; captain adjutant, Frederick Dodd. Addresses were made by General C. F. McGlashan, grand chancellor; General H. Schaffner, grand keeper of the records and seals, and Past Grand Commander Morrison.

Friday, September 25th. League of the Cross Cadets in uniform were present, and held exercises in the Art Gallery, where an address was delivered by Colonel William P. Sullivan, Jr.

Members of the League of American Wheelmen were present. The Barker Cycling Club won the prize for the best represented club, and C. G. Sparrowe was awarded a prize for the handsomest wheelman in uniform.

The pupils of the Franklin Grammar School, under the leadership of Principal R. D. Faulkner, sang several selections.

The Native Daughters of the Golden West were also present.

Saturday, September 26th. In the afternoon prizes were given for the handsomest babies from 2 to 5 years of age. Handsome prizes for the same were offered by the following exhibitors: W. P. Fuller & Co., Colonel T. C. Marceau, Tillmann & Bendel, F. Marx & Co., Sperry Flour Company, Mme. Alma E. Keith, C. S. Laumeister, F. H. Bushnell, Tubbs Cordage Company, Sam Sonnenfeld, Gundlach-Bundschu Wine Company, and C. G. Sparrowe.

The prizes were awarded as follows: Boys—Handsomest boys between 2 and 3, Freddy Ganze, Melville Coakley; between 3 and 4, Herbert N. Tirrell, Jr., Joseph F. Nounnan, Jr.; between 4 and 5, Arthur Brown, Guy Lester Kennerson. Girls—Handsomest girls between 2 and 3, Bernardine Bruse, Ethel Campbell; between 3 and 4, Gertrude Davis, Belle Wheeler; between 4 and 5, Geraldine Flood, Leonore Marie Sweeney. A special prize was awarded to Evelyn Latham, twins Charlotte and Helen Crown, Gussie and Rudolph Krauss.

Judges—Girls, Miss Lulu Doolan, Miss Gertrude Ahern, Mrs. A. Pioda. Boys, Miss Blanche Cumming, Mrs. J. C. Winterburn, Mrs. S. H. Tacy.

In the evening the Art Gallery was given over to the San Francisco Commercial Travelers' Association.

Monday, September 28th. Athletic exhibition by the Turners of the San Francisco, Eintracht, Mission, Vorwaert and Oakland Turn Ver-eins, consisting of wand drill, jumping, turning, etc. I. N. Mertens, Chairman of the Committee of Arrangements.

Tuesday, September 29th. Athletic exhibition of the Young Men's Christian Association and drill by the Boys' Brigade. The pupils of the public evening schools attended.

Wednesday, September 30th. Dairymen's Day. A lecture was given in front of the exhibit of the Dairymen's Union in the annex by Major H. E. Alvord, of the United States Department of Agriculture.

Thursday, October 1st. Suffrage Day.

Floral Day.

In the evening an address was delivered in the Art Gallery by Rev. Anna H. Shaw on "The Signs of the Times."

A floral exhibition was held for prizes to-day. (See list of cash awards.)

Friday, October 2d. Governor's Night. Governor James H. Budd and staff in full uniform attended, and were welcomed by President Denicke, after which the Governor and staff, escorted by the directors of the Institute, viewed the exhibits. On all these occasions the Music Committee provided suitable music, as far as possible.

The pupils of the public schools were all admitted free. The first came September 8th, and from that date until September 25th, from 5 to 9 schools came daily, except Saturdays.

In conclusion, your committee desires to express to the Board its thanks for their support, to the members of the Music Committee for their assistance, and to the many societies and individuals connected therewith for their able co-operation.

R. P. DOOLAN,
JOSEPH M. CUMMING,
S. H. TACY,
Committee on Special Events.

ADMISSION DAY IN CALIFORNIA.

Prize Poem Submitted for September 9, 1896.

Far to the West, in the region of sunset,
Long lay a land to nations unknown,
There the sun shone o'er the bloom in the meadows,
And the rain fell where the poppies had blown.

Through the tall forests the antelope gaily
Leapt to the sound of some bright tinkling fall,
And the bear clambered with clumsy persistence,
And the birds sung with a gay and glad call.

This was God's country so long undiscovered,
Waiting the men whom his province should bless,
Naught but the red men could tell of its glory,
Naught of its future the red men could guess.

Envoys from Spain sought the good of this people,
Taught them God's worship, and taught them to live;
Then came the trader with barter and bargain,
Much did he transport, but little to give.

Far in the East now a rumor gained credence,
Land in the West was the land of pure gold.
Thither men flocked in gay and mad numbers,
Thither to dig in the earth's mellow mould.

ADMISSION DAY—POEM.

Sought they the God of Gold early and fiercely,
Sought they till late the sun sunk in the West.
Naught did they care for the gold of the harvest,
Nay, nor fruit golden—pure gold was the best.

Years cooled an ardor not destined to linger,
Years showed a country more golden by far
Than a coarse scramble for bright metal only—
Land of the West aglow, bright Western star!

See, on tall mountains the snows are fast melting,
Crashing they fall as a stream of delight,
Water fair valleys, yet onward they journey,
Bearing a commerce but now brought to light.

Think you such product no nation shall covet?
Think you such country for long to seclude?
Spirit of freedom such fair clime engenders,
Spirit of freedom shall ne'er be subdued.

Hoist the Bear Flag as a liberty symbol,
Hoist the Bear Flag as a sign we are free.
Ne'er bow the knee to a fair earthly monarch,
Liberty reigns in the land by the sea.

Fairer by far, though, the flag of Republic,
Fairer the stars and the stripes that we love.
Stretch forth a hand from the States of the Union,
Lend us your succor and help us to live.

Yea, what a welcome the nation extended,
Clasping glad hands with the land by the sea.
Place in the flag one more star as a symbol,
Give God the praise for the blessings that be.

Wonder you, then, that your children should cherish
Fondly the thought of this State of their birth?
"Sons of the Golden West," proudly they tell it,
Sons of the fairest State found on this earth.

Glory we, then, this day of our Admission,
To the fair Union we love and adore.
Loyal the Golden State to our dear nation—
Aye, and e'er shall be, too, forevermore.

DEBORAH HOLLINGSWORTH.

REPORT OF THE SUPERINTENDENT OF THE TWENTY-
NINTH INDUSTRIAL EXPOSITION OF THE
MECHANICS' INSTITUTE.

To the President and Board of Trustees of the Mechanics' Institute—

Gentlemen: I would respectfully report, as your Superintendent of the Exhibition, as follows:

The Exposition opened September 1st in most complete order. With but few exceptions, the booths were complete and goods in place and ready for the opening. This was undoubtedly, viz., owing to the prizes offered by you for the best and most complete exhibits on the day of the opening, and I would suggest that in future exhibitions some such inducement offered to exhibitors would aid materially in having them all ready for the opening. The exhibition closed in good order on Saturday, the 3rd inst., at 11 P. M. The goods have all been returned to their owners without loss or damage being reported to me. The booths have most all been removed from the main building, and, with the exception of the machinery, the building will be ready to be turned over to the janitor by to-morrow, the 7th inst. (Tuesday), or not later than the 8th inst.

The number of employees were as follows: 17 watchmen, 2 sergeants, 2 women in the check room, 2 women in the ladies' waiting room, 1 gas man, 1 porter, 1 clerk in the Superintendent's office, 2 men in the art gallery, 2 engineers, 1 fireman, 5 doorkeepers, Mr. Clark, and myself, making 38 in all. This does not include the employees of the ticket office.

From the opening to the closing day, included, there were 115 tons 750 pounds of coal used, making an average of 3 tons 330 pounds per day. This excess over former years was caused by the unusual display of machinery in operation, some of which, especially a rotary engine, called for more than ordinary steam power. The total amount of gas used from August 30th to October 5th was 773,800 feet, from which is to be deducted 63,700 feet, used by exhibitors. This would leave 710,100 feet, an average of 23,670 feet per day. The total amount of water used from September 8th to October 6th was 241,900 cubic feet, an average of 8,063 1-3 cubic feet per day. The total amount of electric light from September 1st to October 3rd, inclusive, was 4,423,000 watts. The number of exhibitors was 305. This does not include the Art Gallery, which contains over 500 exhibitors. I would suggest at a future exhibition that the Art and Photograph galleries should be separated, as it is my opinion each would prefer to have a gallery by themselves.

In conclusion, I would report that the employees have all been attentive to their duties and courteous to visitors, with few exceptions. I would respectfully recommend the engineer, Mr. Dunn, for his strict attention at all times to the duties of his department, and I wish to return my thanks to you, gentlemen, individually, for your uniform kindness.

Trusting my efforts in superintending the exhibition may have met your approval, I remain, very respectfully,

J. H. GILMORE,
Superintendent.